oms WATCHER®

WATCH WATER | GR

a Water Company

WATCH WATER GR

A WATER TREATMENT COMPANY

LEADING MANUFACTURER IN
WATER TREATMENT



PRODUCT CATALOG

FILTRATION MEDIA, ADSORBERS,
CATALYTIC CARBONS, SCALE PREVENTION,
TECHNOLOGIES, INSTANT DOSING CHEMICALS,
AOP TECHNOLOGIES

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PRODUCT CATALOG

SOLUTIONS AS PER CONTAMINANTS

A

- **ACID**
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- **ALGAE**
  Algaeoxy | Oxyone | Oxysorb
- **ALUMINIUM**
  Trappsorb | Katalox Light
- **AMINES**
  OxyOne
- **AMMONIA**
  Trappsorb | RedOxy Treatment
- **ARSENIC**
  Titansorb | Ferrolox | Katalox Light | RedOxy Treatment | Ferric SG | Carbonblock-TS3

B

- **BACTERIA**
  Oxydes | Oxydes - P | PoolOxy | Virol-Oxy | Instant Bioxide | Activesorb-AG | RedOxy Treatment | RapidOxy | OxyOne | AQUARedox
- **BARIUM**
  Bariumtrapp
- **BENZENE**
  Hydrosorb | RedOxy Treatment
- **BIOFOULING**
  Instant I-Soft | Oxydes-P | Oxydes | Filtersorb SCB
- **BOD**
  RedOxy Treatment | Other Oxy Products
- **BORON**
  Borontrapp
- **BISPHENOL - A (BPA)**
  BisOxy-Liner

C

- **CADMIUM**
  Titansorb | RedOxy Treatment | Crystolite
- **CARBONATES**
  CarbonateX-MG | Aquapurifier X-Mg
- **CHLORINE COMPOUNDS**
  Catalytic Carbon | Hydrosorb | Activesorb-CX | AQUARedox
- **CHLORAMINES**
  Catalytic Carbon | Hydrosorb | Activesorb-CX
- **CHROMIUM**
  Titansorb | Ferrolox | Ferrolox-X | RedOxy Treatment
- **COBALT**
  RedOxy Treatment
- **COD**
  RedOxy Treatment | Other Oxy Products
- **COLOUR**
  DyeOxy & DyeSorb | Catalytic Carbon | Hydrosorb | RedOxy Treatment | Oxydes | Oxydes-P | Ferric SG | AQUARedox
- **COPPER**
  Ferrolox | Titansorb | Ferrolox-X | Katalox-Light | Titansorb
- **CORROSION PREVENTION**
  Corrtrapp | Instant I-Soft | Filtersorb SCB
- **CYANOBACTERIA**
  OxyOne | Oxydes | Oxydes-P

D

- **DEALKALIZATION**
  Carbonate X-MG, Aquapurifier X-MG
- **DERMATITIS**
  Clean Skin Bath
- **DISINFECTION BY PRODUCTS (DBPs)**
  Hydrosorb | Catalytic Carbon | Activesorb-CX | Oxydes | Oxydes-P | AQUARedox
- **DYES**
  DyeOxy & DyeSorb

E

- **E-COLI**
  Hydrosorb | Catalytic Carbon | RedOxy Treatment
- **ECZEMA**
  Clean Skin Bath

F

- **FUNGUS**
  Virol-Oxy | Instant Bioxides
- **FLOURIDE**
  Hydrosorb | Catalytic Carbon | Catalytic Carbon MG

H

- **HERBICIDES**
  AQUARedox | Hydrosorb
- **HYDROGEN SULPHIDE (H_2S)**
  Katalox Light | Ferrolox | Ferrolox-G | RedOxy Treatment | Ferric SG | Other Oxy Products
- **HARDNESS (SCALE)**
  Filtersorb SP3 | Filtersorb CT | Instant I-Soft | Nitrosoft | Aquapurifier X-Mg | Carbonate X-Mg | Filtersorb SCB
- **HEAVY METALS**
  Titansorb | Ferrolox | Red Oxy Treatment | Katalox Light | Katalox Light Plus | Catalytic Carbon | AQUARedox
- **HUMIC SUBSTANCES**
  Catalytic Carbon | RedOxy Treatment | Oxydes | Oxydes-P | AQUARedox | Hydrosorb
- **HYDROCARBONS**
  RedOxy Treatment | Other Oxy Products

I

- **IRON**
  Katalox Light | Katalox Light Plus

L

- **LAGOON**
  LagoonOxy
- **LANDFILL WASTE**
  BlackOxy | WhiteOxy | DeoDor-Oxy
- **LEACHATE**
  LeachOxy | Red Oxy Treatment | DeoDor-Oxy

LEAD
Titansorb | Ferrolox |
Catalytic Carbon | RedOxy Treatment

LEGIONELLA
LegioOxy

LIGNIN
Hydrosorb | Catalytic Carbon

M

MANGANESE
Katalox Light | Katalox Light Plus

MERCURY
Titansorb | RedOxy Treatment

MICROORGANISM
Oxydes | Oxydes-P |
Instant Bioxide |Activesorb-AG |
Virol-Oxy | PoolOxy |
RedOxy Treatment

MICROPLASTICS
AQUARedox

N

NICKEL
Ferrolox | Titansorb | Ferrolox X |
Catalytic Carbon | Katalox Light

NITRATES
Nitrotrapp | NitroSoft

NITROSAMINES
NitroSoft

O

ODOUR
DeoDor-Oxy | Catalytic Carbon |
Oxydes | Hydrosorb | Oxydes-P |
RedOxy Treatment | Ferric SG |
Oxysorb

ORGANIC COMPOUNDS
RedOxy Treatment |
Catalytic Carbon | Organosorb |
Other Oxy Products | AQUARedox

ORGANIC SULPHIDES
OxyOne

P

PARTICLES
Crystolite | Zeosorb | Katalox Light

PATHOGENS
SolarOxy-3C | RedOxy Treatment

PESTICIDES
RedOxy Treatment | OxyOne |
Oxydes | Oxydes-P | AQUARedox

PFAS, PFOA, PFOS, PFCA
Hydrosorb |
Catalytic Carbon MG

PHARMACEUTICALS
RedOxy Treatment | SolarOxy-3C |
Catalytic Carbon | AQUARedox

PHENOLS
Catalytic Carbon |
RedOxy Treatment

PHOSPHORUS
RedOxy Treatment |
RedOxy-3C | Ferric SG |
Ferrolox | Trappsorb |
GreenOxy

PSEUDOMONAS
RapidOxy | OxyOne | Oxydes

PH NEUTRALIZATION
Trappsorb | Hydrosorb | Acidtrapp

R

RADIONUCLIDES
Katalox Light Plus | Titansorb

RADIUM
Titansorb

S

SCALE PREVENTION
Filtersorb SP3 | Filtersorb CT |
Filtersorb SCB | CarbonateX-Mg |
Instant I-Soft | AquapurifierX-Mg |
SOFTNOR | Scaletrapp |
Special Filter | Combi-Mix

SCALE REMOVAL
I-Soft Descaler | Green Acid |
ScaleOver

SDI
Crystolite

SELENIUM
Titansorb | Ferrolox |
Ferrolox X | RedOxy Treatment

SILICA
Silicatrapp

SULPHATE
RedOxy Treatment | Hydrosorb

SUSPENDED SOLIDS (TSS)
Crystolite | Zeosorb |
Katalox-Light

T

TANNINS
Hydrosorb | Catalytic Carbon |
Activesorb-CX

THMs
Hydrosorb | Catalytic Carbon |
Activesorb-CX | AQUARedox

TOXIC DYE POLLUTANTS
DyeOxy DyeSorb

TOXIC GASES
Ferrolox-G | DeoDor-Oxy |
Ferrolox - XG

TURBIDITY
Crystolite | Zeosorb

U

URANIUM
Titansorb

V

VINYL COMPOUNDS
Hydrosorb | Vinylsorb

VIRUS
Virol-Oxy | Activesorb-AG |
RedOxy Treatment | Oxydes |
Oxydes-P | PoolOxy |
Instant Bioxide | AQUARedox

VOCs
Hydrosorb | DeoDor-Oxy |
Ferrolox-G | Catalytic Carbon |
Oxysorb | RedOxy Treatment |
AQUARedox

Z

ZINC
Titansorb | Ferrolox | Ferrolox X |
RedOxy Treatment

*Red-Oxy Technologies (Red-Oxy Treatment, Red-Oxy-3C, Red-Oxy-4C)
*WATCH WATER® Germany provides the information contained in this table in good faith, with the objective of guiding in the selection of its products. It does not represent a guarantee of performance or percentage of removal of the specified contaminants. We recommend that you contact WATCH WATER® Germany and/or its Authorized Distributors to have a specific proposal for each project.

FILTERSORB® SP3

Scale Prevention Media Based on NAC Technology

FILTERSORB® SP3 is the result of deep research work along with its undisputed success in the worldwide market. The key to this unique product is the transformation of calcium and magnesium hardness into non-soluble microcrystals. This conversion is done on active nucleation sites, hence the process is called **NUCLEATION ASSISTED CRYSTALLIZATION.**



APPLICATIONS

- Home Appliances
- Major Appliances
- Cooling Towers
- Industrial Appliances





WORKING PRINCIPLE

When the hard water is passed over **FILTERSORB® SP3** beads, the scale causing **$Ca(HCO_3)_2$** (Calcium Bicarbonate) undergoes nucleation and is transformed into aragonite form of **$CaCO_3$** (Calcium Carbonate) crystals. These calcium carbonate crystals are very stable and incapable of forming scale) in the water. The name fragment "SP3 (Scale Prevention 3)" indicates the unique transformation of water hardness into 3 components:

$$Ca(HCO_3)_2 \rightarrow \underset{\text{(Micro-Crystals)}}{CaCO_3} + \underset{\text{(Colloid)}}{CO_2} + \underset{\text{(Pure)}}{H_2O}$$

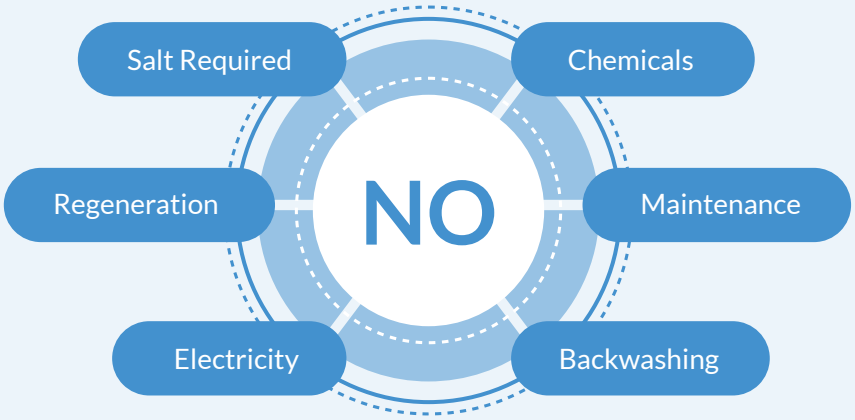
FILTERSORB® SP3 does not add sodium to water like conventional softeners, while keeping the healthy minerals intact. In the pressure vessel, the equilibrium is driven to the right due to the driving force of stable crystal formation. As long as CO_2 is being removed the soluble $Ca(HCO_3)_2$ converts into insoluble calcium carbonate ($CaCO_3$) crystals.

THE MOST
ECONOMICAL & EFFECTIVE
SALT FREE SOLUTION





ADVANTAGES & FEATURES



- 5 - 7 years media life
- Nucleation Assisted Crystallization (NAC)
- Best Quality Drinking Water
- Green Technology!

TECHNICAL SPECIFICATIONS

Bulk density	SI US	780 kg/m^3 48.7 lb / ft^3
Particle size	SI	0.55 – 0.75 mm
Mesh size	US	20 x 35
Moisture content		10 – 25 %
Flow direction		Up Flow
Recommended operating temperature	SI US	5 – 80 °C 41 – 176 °F
pH range		6.5 – 9.5

BEST SUITABLE FOR

POINT OF USE

POINT OF ENTRY

COMMERCIAL

SALT-FREE SCALE PREVENTION







Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Drum (60 L)	49 kg	18	965 kg

NSF/ANSI/CAN 61 & 372

** Other packaging can be considered on request*

FILTERSORB® CT

Combined Treatment of Cationic and Anionic Scale (Total Hardness)



FILTERSORB®CT is the perfect combination of **FILTERSORB®SP3** and **FILTERSORB®SPA** offering a combined treatment for all residential, industrial, and commercial applications. Its highly active polymers crystallize the ions responsible for the scale, without requiring regeneration, backwashing or any other maintenance.

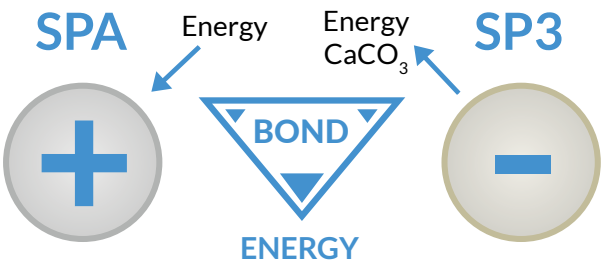
NUCLEATION ASSISTED CRYSTALLISATION: **FILTERSORB®SP3** provides active nucleation cites and transforms cations from its surroundings into crystals.

EXOTHERMIC REACTION: **FILTERSORB®SPA** media separates the anions (negatively charged) from positively charged cations in the form of ionic bonds on the surface called EXO (outside) on very strong positively charged beads.

APPLICATIONS

- Scale Prevention
- High Efficacy
- No Salt
- No Water Softener
- 100 % Efficiency

FILTERSORB® CT is a Nucleation and Exothermic Combination



EXAMPLE OF

Anions Includes :

- Sulfates (SO_4^{2-})
- Silicates (SiO^{2-})
- Phosphates (PO_4^{3}-)
- Fluoride (F-)
- Chloride (CL-)
- Bromide (Br-)
- Carbonate (CO_3^{2}-)
- Hydride (H-)

Cations Includes:

- Calcium ($Ca2^{+}$)
- Iron (Fe^{2}+)
- Lead (PB^{2}+)
- Copper ($Cu2^{+}$)
- Hydrogen (H+)



Uses of FILTERSORB® with alternating surfaces

FILTERSORB®CT units prevent scale due to both Temporary and Permanent Hardness. **Watch Water®** recommends a mix of 50 % SP3 media and 50 % SPA media. The **FILTERSORB®CT** systems do not need any regeneration, no chemical feed, no electrical valve head and no wastewater outlet. It is a continuous up-flow system and can be used for both:

POINT OF ENTRY POINT OF USE

Total Hardness	=	Temporary Hardness	+	Permanent Hardness
▼		▼		▼
Fitersorb CT		Filtersorb SP3		Filtersorb SPA

FILTERSORB®CT

Best way to treat both anions as well as cations in hard water which can provide safe treatment of scale with 100 times more power.



TECHNICAL SPECIFICATIONS		
Appearance		White / opaque solid granules
Odour		Odourless
Bulk density	SI	700-720 kg/m^3
	US	42-44 lb/ ft^3
Particle size	SI	0.55 - 0.75 mm
Mesh size	US	20 x 35
Moisture content		10 – 25 %
Flow direction		Up Flow
Recommended operating temperature	SI	5 – 80°C
	US	41 – 176°F
pH range		6.5 - 9.5



Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Drum (60 L)	44 kg	18	875 kg

NSF/ANSI/CAN 61

★ *Other packaging can be considered on request*

FILTERSORB® SCB

Scale Prevention, Corrosion Prevention & Biofouling Control



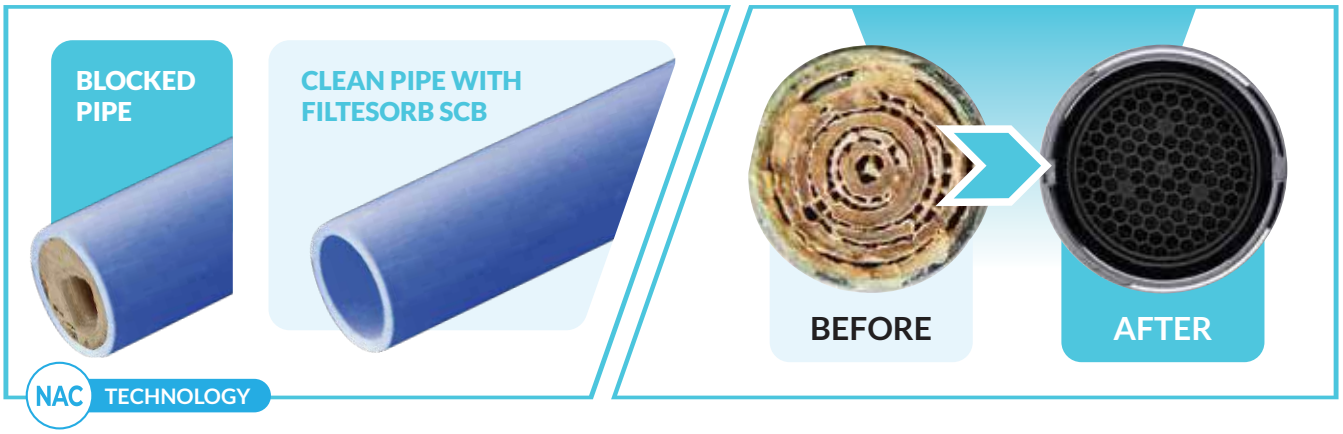
FilterSorb SCB is a revolutionary water treatment media designed by **Watch Water®** Mannheim. It is an exclusive, ready-to-use formulation that integrates the best of **Watch Water®'s** proprietary technologies to effectively tackle **Scale buildup, Corrosion, and Biofouling** in residential, commercial, and industrial water systems.

The Advanced Solution For

Scale, Corrosion and Biofilm Prevention

APPLICATIONS

- Home Appliances
- Major Appliances
- Cooling Towers
- Industrial Appliances

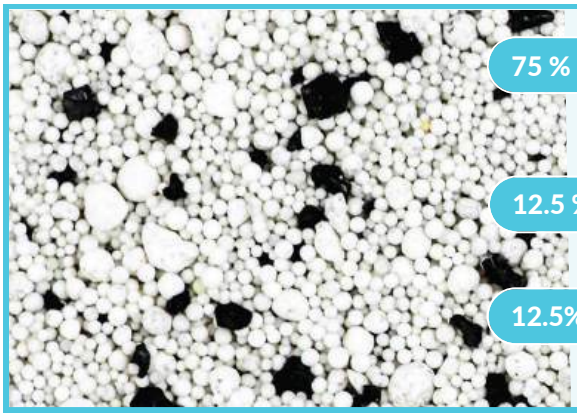


ADVANTAGES OVER CONVENTIONAL SYSTEM

Feature	Filtersorb SCB	Water Softener
Scale Prevention	100% Effective	High Sodium
Corrosion Resistance	High	None
Biofilm Control	Excellent	None
Salt (NaCl Needed)	None	Regular NaCl Needed
Maintenance	None	Regular Maintenance Needed
Environmental Impact	Very Eco-Friendly	High wastewater Generation
Operating Cost	None	High

BEST SUITABLE FOR

- POINT OF USE
- POINT OF ENTRY
- COMMERCIAL



75 % Filtersorb-SP3

Only non-salt-based media for effective scale inhibition and scale prevention.

12.5 % CorrTrapp

Protects against corrosion across various water types.

12.5% HydroSorb

Controls biofilm formation to maintain system cleanliness.

WHY CHOOSE FILTERSORB SCB?

Filtersorb SCB is an advanced reliable, and eco-friendly solution, developed by Watch Water® GmbH and exclusively manufactured by Watch Water® GmbH. Its proprietary formulation guarantees superior performance and longevity in water treatment applications, making it the best choice for both residential and commercial use.

Leveraging Advanced

MIXED MEDIA

Technology

Note: All small Filtersorb SCB systems can be designed with Watch Water Exclusive **Quick Change Upflow**

Quick Exchange Adapter



KEY TECHNICAL SPECIFICATIONS

Parameter	Specification
Product Name	Filtersorb SCB
Formulation	75% Filtersorb-SP3 12.5% CorrTrapp 12.5% HydroSorb
Applications	Scale, Corrosion and Biofilm-Prevention
System Type	Upflow System
Pressure Vessel Size	Media Volume x 4
Minimum Operating Temperature	5°C (41°F)
Maximum Operating Temperature	80°C (176°F)
Operating pH Range	6.0-9.5





Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Drum (60 L)	49 kg	18	965 kg

⋆ Other packaging can be considered on request

CARBONATE X-MG

Dealkalization & Magnesium Enrich Media



Carbonate X-MG is an innovative solution specifically developed by **Watch Water®** to tackle challenges related to carbonate ions in water treatment. This product not only prevents scale build-up but also enhances water quality by adding magnesium, thereby ensuring the optimal performance of appliances and systems impacted by carbonate ions.

Decarbonating water with **Carbonate X-MG** is a convenient method to infuse magnesium into your coffee and drinking water, allowing you to create magnesium-enriched, super-healthy water at home or for commercial & residential applications. As water flows through **Carbonate X-MG**, loaded with magnesium oxide, magnesium ions are released, effectively enriching the water with magnesium and offering over 600 potential health benefits.

APPLICATIONS

Coffee Shops | Barista | Bakeries | Restaurants & Bars | Hotels | Offices & Canteens

CARBONATE X-MG - CARBONATE REMOVAL & MAGNESIUM ENRICHED WATER

Carbonate X-MG goes beyond simply improving the flavor of your beverages. Our optimized water not only enriches taste but also extends the lifespan of your equipment by protecting delicate steam nozzles, boilers, and heating elements from limescale deposits. This protection prevents potential damage and enhances the durability of your equipment.



Advanced Water Treatment with HydroSorb Adsorber

HydroSorb Adsorber, utilizing Metal Organic Frameworks (MOFs), is a cutting-edge solution for advanced water treatment. It effectively removes pharmaceuticals, microplastics, industrial chemicals, **PFOS-PFOA** related substances, disinfection by-products (DBPs), and other harmful organics from coffee and drinking water.

UPGRADE YOUR WATER SYSTEM FOR

HEALTHIER WATER
SUPERIOR EQUIPMENT PERFORMANCE

Removes all

PHARMACEUTICAL, MICROPLASTICS, INDUSTRIAL CHEMICALS (PFOS-PFOA), CHLORAMINES

Chloramines, commonly used as disinfectants in drinking water treatment, pose potential health risks in both coffee and drinking water. HydroSorb offers the best available technology to eliminate organics and chloramines, ensuring safer and higher-quality water.



CARBONATE X-MG ADDED VALUE

An important application for **Carbonate X-MG** is the production of cartridges or Water Filters, which are used mainly for creating decarbonized water in the preparation of Hot Drinks such as coffee and tea. Another key application for **Carbonate X-MG** is for all vending machines, including dishwashers and washing machines. These filters are used both at home and commercially.

BENEFITS

Optimal Brewing: Preserve pH balance and essential Magnesium minerals for perfect flavor and aroma extraction.

Scale Prevention: Protect your coffee and tea equipment from limescale, extending its lifespan.

Consistent Quality: Deliver consistent, high-quality results with every batch, ensuring ultimate customer satisfaction.



POU and POE Systems

GENERAL DESCRIPTION

Change on the surface	Positive
Functional Group	Carbonate Removal
Matrix	Mixed with MOFs
Structure	Increased surface
Appearance	White, Opaque & Black
Bead Size	0.4–3.4 mm
Bulk density	850-880g/liter

WATCH WATER® - CARBONATE X-MG

Carbonate X-MG is an innovative, eco-friendly water treatment solution exclusively developed and manufactured by **Watch Water® GmbH** in Mannheim, Germany.

This advanced media combines cutting-edge proprietary technologies to deliver exceptional performance and durability in both residential and commercial applications. Designed to combat scale build-up, regulate alkalinity, and enhance water quality, **Carbonate X-MG** ensures reliable and long-lasting results.

Its ready-to-use formulation simplifies water treatment processes, making it a trusted choice for improving system efficiency and achieving superior water quality.



Standard Packaging

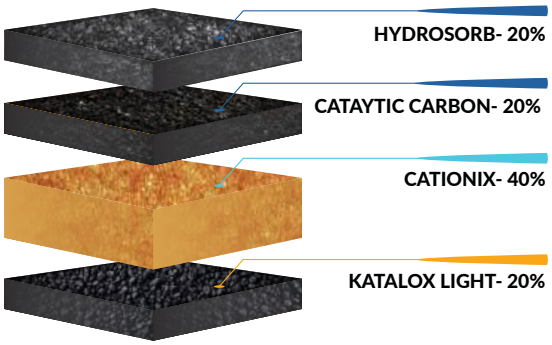
Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Drum (60 L)	48 kg	18	955 kg

★ *Other packaging can be considered on request*

COMBI-MIX™

Compact Water Treatment Solution

COMBI-MIX™ is an innovative, proprietary product from Watch Water® Mannheim, engineered for both residential and commercial drinking water treatment. It integrates multiple advanced filtration technologies into a single, highly efficient system that removes various contaminants and significantly reduces wastewater production.



FOUR COMBINATION PRODUCT, REVOLUTIONIZING WATER TREATMENT

Delivering a comprehensive solution for water purification, this unique blend of materials effectively removes all major contaminants, ensuring water that is safe, crystal clear, and of exceptional quality.

Hydrosorb: Targets and removes various **organic** and **inorganic** compounds, ensuring water is free from harmful chemicals and contaminants. Its unique structure allows regeneration with salt, making it a long-lasting and efficient water treatment medium.

Katalox-Light: Effectively removes **iron, manganese**, and hydrogen sulfide from groundwater. Known for its superior catalytic properties, high filtration capacity, and long lifespan, it excels in both **commercial** and **residential** applications. Its up-flow design ensures efficient contact with COMBI-MIX™ media, enhancing contaminant removal while minimizing channeling and reducing backwash requirements.

Catalytic Carbon: Coated with **Zero Valent Iron (ZVI)**, it enhances water treatment processes by removing a wide range of contaminants, including organic compounds, heavy metals, chlorine, and chloramines. Unlike standard activated carbon, it effectively eliminates chloramines, which cannot be removed by conventional filters.

Cationix: Part of the COMBI-MIX™ system, it efficiently softens water by removing calcium and magnesium ions, preventing scale formation and improving water quality. **Cationix** works synergistically with Hydrosorb, Catalytic Carbon, and Katalox-Light to address a broader range of contaminants in both residential and commercial applications.

REVOLUTIONARY RESIDENTIAL & COMMERCIAL DRINKING WATER TREATMENT SOLUTION



REMOVAL OF

- Hardness (as $CaCO_3$)
- Iron (Fe2+)
- Lead (Pb)
- Radioactive Contaminants
- Microbial Contaminants
- PFAS
- Trihalomethanes(THMs)
- Heavy Metals
- Manganese (Mn2+)
- Chromium (Cr)
- Ammonia
- Chloramines
- Hydrogen Sulfides
- Microplastics
- Emerging Contaminants

COMBMIX's Packed Bed Configuration:

Delivering a comprehensive solution for water purification, this unique blend of materials effectively removes all major contaminants, ensuring water that is safe, crystal clear, and of exceptional quality.

COMBI-MIX™ INTEGRATES Unique Blend of Media

- 20% Hydrosorb
- 20% Catalytic Carbon
- 40% Cationix (Hardness Removal)
- 20% Katalox Light

HydroSorb
The lightest of the four, Hydrosorb will settle at the top.

Catalytic Carbon
Being lighter, it will settle above Cationix.

Cationix
Slightly lighter than Katalox Light, it will form the next layer above it.

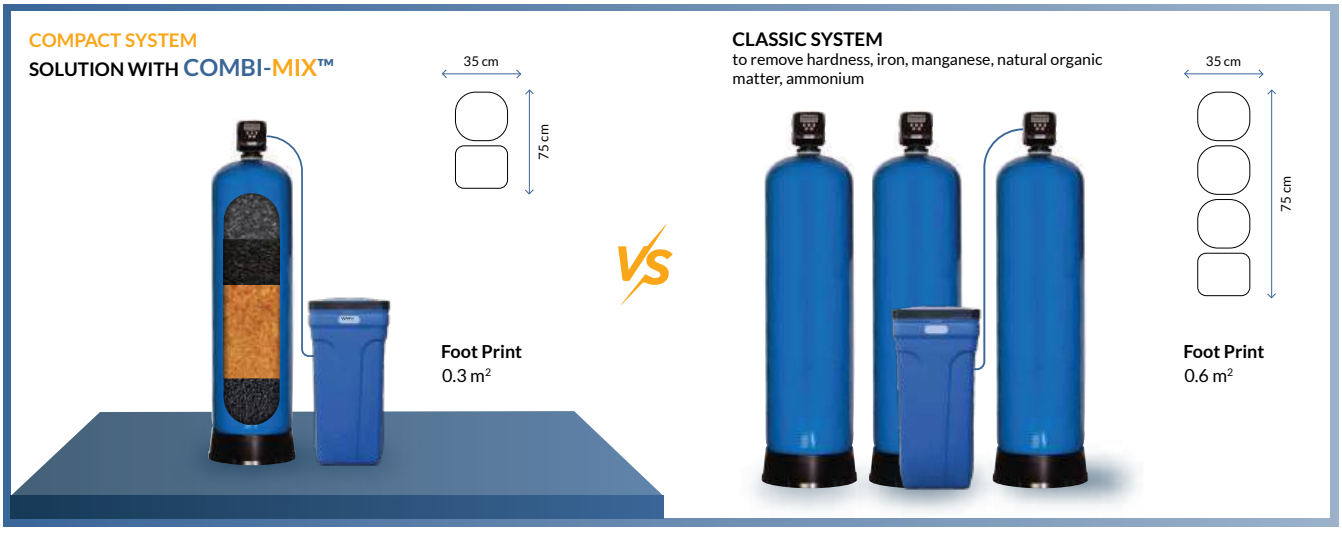
Katalox Light
This media is relatively dense, so it will settle near the bottom of the vessel and bottom distributors.



This arrangement allows each media to perform its intended function effectively in treating residential drinking water.

Regeneration :

COMBI-MIX™ Single-Step Regeneration: All four media regenerate together using only 80 grams of sodium chloride per liter of Cationix Media. This process lowers environmental impact and operational costs, making COMBI-MIX™ more efficient than conventional water softeners. The Water Metered Control Valve automates regeneration, ensuring consistent system performance without constant supervision.





Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Bag (25 L)	22 kg	40	905 kg

★ *Other packaging can be considered on request*

ZEOSORB

Absolute Replacement of Sand & Multimedia Filters



ZEOSORB® has been introduced into the process of drinking water purification and wastewater treatment due to its substantial **specific surface area** and its capacity for selective adsorption of various substances, including ammonia, dissolved organic matter, and numerous cations. ZEOSORB® can handle large water volumes for filtration. It surpasses other adsorbents in stability, filtration efficiency, accessibility, and cost-effectiveness.

ZEOSORB® is a high purity natural Aluminosilicate micro crystalline mineral. It is available in various particle sizes. ZEOSORB® serves as a polyfunctional sorbent, binding harmful components during wastewater treatment. ZEOSORB® typically would have a nominal filter rating of less than 3 microns. ZEOSORB® generally has 6 to 7 times the surface area as sand. This makes ZEOSORB® a much better filter media with greater loading capacity.

APPLICATIONS

- Municipal & Industrial
- Commercial
- Water Recycle
- Pharmaceutical
- Food & Beverage

Numerous studies confirm ZEOSORB® potential as an effective adsorbent in various water purification processes, including removal of ammonia, nitrogen, color, dissolved organic matter, trace heavy metals, radioactive substances elimination, desalination, and so on.

Z EOSORB is a high-purity filter media that
E nsures many advantages
O ver conventional granular
S and, anthracite, multimedia and
O ther filter media products for
R emoval of suspended particles and Turbidity
B ackwash cycles and labor costs are reduced



EXCELLENT FILTRATION

<3µ

EFFICIENTLY CLEAN

ABSOLUTE REPLACEMENT TO SAND & MULTIMEDIA



TECHNICAL SPECIFICATIONS

ZEOSORB® is high purity Natural Alumino-silicate (Zeolite) microcrystalline mineral. It has high Porosity, high specific surface and is resistant to abrasion.

ZEOSORB® is A 100% Natural Alumino-silicate (Zeolite) Mineral.

TECHNICAL SPECIFICATIONS		
Appearance		Pale green/grey
Filtration (Nominal)		< 3 micron
Porosity		24 - 32 %
Particle Size		0.6-1.5 mm 1.5-2.5 mm
Mesh size		18 x 35 14 x 30
Water Retention		Up to 50%
Service Velocity		15 – 40 m/h
Backwash Velocity		25 – 50 m/h
Bulk Density	SI US	820 Kg/m^3 51.2 lb/ft^3
Bed Depth	Pools Others	400 - 1000 mm 800 - 1200 mm

FEATURES

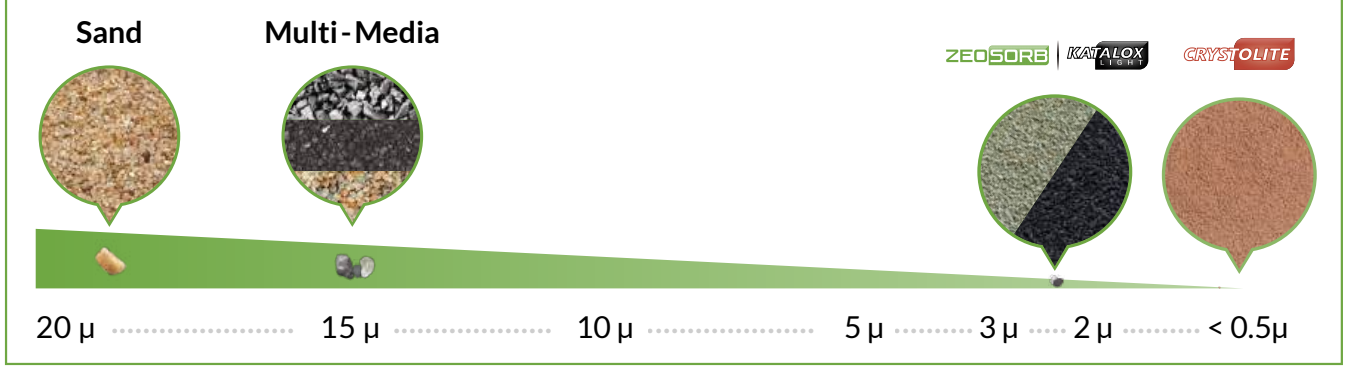
- Excellent Filtration Up To 3 Microns
- Large Surface Area (> 270 m^2/gram)
- High Porosity & Loading Capacity
- High Efficiency Low Operating Cost
- Lifetime > 10 Years
- NSF/ANSI/CAN 61
  NSF/ANSI/CAN 372



Various tests have concluded that **ZEOSORB®** is much superior to conventional granular media. **ZEOSORB®** effectively removes fine particles in the range of 0.5µm to 3µm, that typically escapes conventional media.

Filter Media	Filter rating (nominal)	Solids loading capacity
ZEOSORB® (14 x 30 mesh)	< 3 µm	~ 2.6x
Sand (20 x 40 mesh and Anthracite)	~ 20 µm	1x
Sand/Anthracite (20 x 40)	~ 15 µm	~ 1.4x
Multimedia	~ 12 µm	~ 1.4x

SAVE BY SIMPLY
SWITCHING TO ZEOSORB





Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Bag (30 L)	25 kg	40	1025 kg
Bulk Bag (1200 L)	1000 kg	1	1025 kg

NSF/ANSI/CAN 61 & 372

★ Other packaging can be considered on request

KATALYST LIGHT

Advanced Catalytic Filtration Media

KATALYST LIGHT® innovative filtration media is exclusively manufactured in Germany. It is engineered with a unique MnO_2 coating on the exceptional base material ZEOSORB®. KATALYST LIGHT® boasts exceptional attributes: it is lightweight, presents an expanded filtration surface, endures an extended service life, and guarantees steadfast performance, capable of filtration down to 3 microns. Its applications encompass a wide spectrum of tasks, including high-level filtration, elimination of color and odors, removal of Iron Manganese, and Hydrogen sulfide, as well as the efficient reduction of Arsenic, Zinc, Copper, Lead, Radium, Uranium, and other radionuclides and heavy metals.

When compared to prevalent water treatment media such as sand, BIRM, Greensand Plus, and Manganese Greensand, KATALYST LIGHT® distinguishes itself through its exceptional composition. High concentration coating of MnO_2 on the surface of KATALYST LIGHT® enhances the oxidation and co-precipitation of contaminants significantly. KATALYST LIGHT® system is meticulously designed with specialized iron dosing technology, which offers numerous advantages over adsorbent media typically used for Heavy Metal removal.



APPLICATIONS

Residential | Commercial | Industrial | Municipal Application



FEATURES

HIGH

- ✓ MnO_2 Content
- ✓ Surface Area
- ✓ Filtration Rate
- ✓ Iron Removal Capacity
- ✓ Manganese Removal Capacity
- ✓ H_2S Removal Capacity

NO

- × Disinfection By-Product
- × Frequent media replacement
- × Mandatory dosing requirement
- × Crystalline Silica
- × Extra operational costs
- × Competition

NSF/ ANSI / CAN 61 & 372

MEMBER Water Quality ASSOCIATION

PREMIUM QUALITY
MADE IN GERMANY

KATALYST LIGHT VS COMPETITION

Filtration
down to 3 micron

High resistance to
chemicals and oxidants

Long life time
7 to 10 years

Highest Capacity
in the market

	KATALOX LIGHT	COMPETITORS
Removal of Iron & Manganese	✓	✓
Removal of Hydrogen Sulfide (H_2S)	✓	✗
Reduction of Turbidity, Suspended Solids and SDI	✓	✗
Filtration up to 3 Microns	✓	✗
Compact Installations (Only 1 step)	✓	✗
Light Weight material	✓	✗
Backwash Water Savings	✓	✗
Coating with High MnO_2 Content (>10%)	✓	✗

KATALYST LIGHT® stands alone as an industry leader, unrivaled in its exceptional performance and unmatched features. It has set benchmarks in terms of quality and excels in iron, manganese, and hydrogen sulfide removal with unparalleled oxidation and filtration capabilities, accommodating diverse applications and ensuring exceptional quality.

"KATALYST LIGHT
SETTING BENCHMARKS IN WATER INDUSTRY"

It is the highest quality product that can adapt itself to various applications. **KATALYST LIGHT** celebrated its 12 years of undisputed success in the market leaving competitors in the dust.

TECHNICAL SPECIFICATIONS

Appearance		Granular black beads
Odour		None
Particle Size		0.6-1.4 mm
Mesh Size	SI	14 x 30
Uniformity Coefficient	US	≤ 1.75
Bulk Density	SI US	1060 Kg/m^3 66 lb/ft^3
Moisture Content		< 0.5 % as shipped
Loading Capacity	Fe^{2+} Mn^{2+} H_2S	3000 mg / l 1500 mg / l 500 mg / l
Service Velocity	SI US	10 – 30 m/h 4 – 12 gpm/ ft^2
Backwash Velocity	SI US	25 - 30 m/h 10 - 12 gpm/ ft^2



Please note: 'KATALYST LIGHT®' and 'KATALOX LIGHT®' are NOT two different products. They are just two different trade names for the same product.



Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Bag (28 L)	30 kg	40	1225 kg
Bulk Bag (1000 L)	1060 kg	1	1085 kg

NSF/ANSI/CAN 61 & 372

★ Other packaging can be considered on request

KATALYST PLUS

Advanced Catalytic Filtration Media Plus

KATALYST-LIGHT Plus, a cutting-edge catalytic filter media, effectively removes both iron and manganese in one simple step without the need to raise pH levels. This unique blend of 82% Magnesium Oxide and 15% Manganese Dioxide offers superior performance compared to conventional methods.



Enhanced Efficiency:

The Two-In-One process is the best solution for removal of Manganese and Iron.

Drinking water containing manganese typically also has iron. While iron is easier to remove, manganese is much more difficult to remove. Traditional manganese-coated materials can eliminate iron but not manganese. Removing manganese generally requires raising the pH, a feature that only **KATALYST-LIGHT Plus** can accomplish. This cutting-edge media is the most effective solution, enabling the removal of both iron and manganese together in one efficient step.

APPLICATIONS

Residential | Commercial | Industrial | Municipal Application

Comprehensive Contaminant Removal:

Our state-of-the-art technology not only removes manganese and iron but also effectively eliminates hydrogen sulfide. The **KATALYST-LIGHT Plus** filter bed, enriched with oxidized manganese and iron hydroxide, ensures the coprecipitation of arsenic, phosphates, chromium, copper, radium, and other radionuclides from groundwater.

Revolution + Instant Oxydes:

Introducing Watch Water innovative **INSTANT OXYDES** (Stabilize H_2O_2), **KATALYST-LIGHT Plus** rapidly kills bacteria and viruses, reducing **COD** and **BOD** levels without the use of chlorine or potassium permanganate, ensuring your water is free from harmful disinfection byproducts.

Revolution + Instant Oxydes:

Suitable for residential, commercial, industrial, and municipal use, **KATALYST-LIGHT Plus** is the ultimate solution for Manganese and Iron.



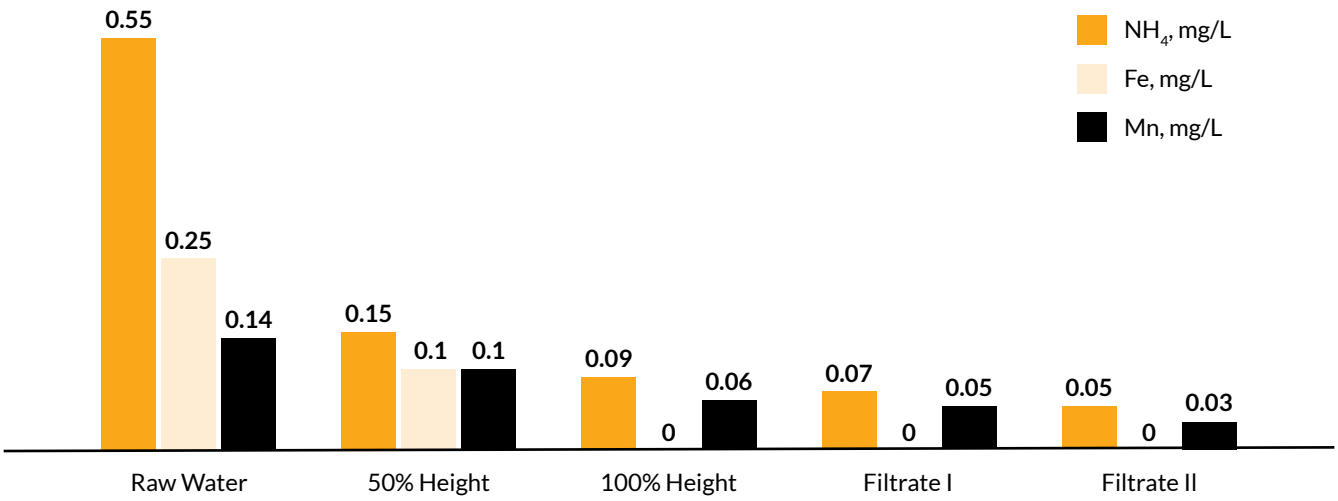
Technical Data

Composition of Katalyst-Light Plus

Compound	Typical Value	Specifications
MgO	82%	>80%
MnO_2	15%	>14.5%
CaO	3%	<4%



Changes in ammonia, total iron, and manganese content in the two-stage filtration system.



TECHNICAL SPECIFICATIONS

Appearance		Black uniform bease
Odor		None
Mesh Size	SI	0.6 - 1.4 mm
	US	14 x 30
Uniformity Coefficient	SI	≤ 1.5
Bulk Weight	SI	44 kg/ ft^3
	US	97.4 lb/ft^3
Removal Capacity	for Fe2+ alone	3000 mg/l 85000 mg/ft^3 (aprx)
	for Mn2+ alone	1500 mg/l 42500 mg/ft^3 (aprx)
	for H2S alone	500 mg/l 14000 mg/ft^3 (aprx)

RECOMMENDED SYSTEM OPERATING CONDITIONS

Inlet water pH		6.2 - 8.5
Freeboard		40%
Min. Bed Depth	SI	31.5 inches
	US	80 cm
Optimal Bed. Depth	SI	120 - 150 cm
	US	47 - 59 inches
Service Flow	SI	10 - 20 m/h
	US	5 - 9.8 gpm/ ft^2
Backwash flow(min.)	SI	25 - 30 m/h
	US	10 - 12 gpm/ ft^2
Backwash flow (minimum)		10 minutes



Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Bag (28 L)	44 kg	25	1125 kg
Bulk Bag (700 L)	1092 kg	1	1117 kg

NSF/ANSI/CAN 61 & 372

★ *Other packaging can be considered on request*

CRYSTOLITE

Microfiltration Media & SDI Removal



CRYSTOLITE™ filtration media is very robust, long lasting, backwashable filter media. **CRYSTOLITE™** meets the needs of all industrial, municipal, residential and water reuse applications. This unique, high loading-capacity media is designed to reduce the waste of expensive cartridges and plastic filter housings. Using microfiltration, it provides an exceptional level of clearness and removal of harmful trace metals. It is an excellent alternative to all microfiltration membranes. **CRYSTOLITE™** media provides high efficiency in the removal of total suspended solids and trace heavy metals.

Working Principle

Using **CRYSTOLITE™** media in a pressure vessel to provide a microfiltration effect, It allows the water to flow through the top distributor on the top of filter bed layer, when suspended solids are held on the high surface area of the media allows only clean water to flow through the **CRYSTOLITE™**. As a result, it can be used to filter down 0.5 microns without clogging. It allows all suspended solids to accumulate on the surface of the **CRYSTOLITE™** media and are easily backwashed and immediately returned to service.

FEATURES

- Filtration down to 0.5 microns
- High resistance to chemicals and oxidants
- Reduces Operating Cost in Reverse Osmosis
- Long life time 10 to 15 years



UNIQUE FILTER MEDIA

MICROFILTRATION
UP TO 0.5 MICRONS

CRYSTOLITE® is an excellent preparation for:


Cooling Towers


Boilers


Reverse Osmosis


Power stations


Swimming pools


Heat Exchangers

BENEFITS OF SDI REDUCTION

Silt Density Index (SDI) is a measure of water quality that provides valuable information about the presence of suspended particulate matter. High SDI levels can cause filters and other equipment to clog more frequently. **CRYSTOLITE™** helps in SDI reduction, which further helps in protecting equipment and appliances from potential damage caused by sediment and particulate buildup. Lower SDI values can improve the effectiveness of water treatment & disinfection methods, resulting in much longer ultra filtration or reverse osmosis membrane life, reduced cleaning cycles, reduced chemical costs, reduced anti-scalant use and less membrane blockage.

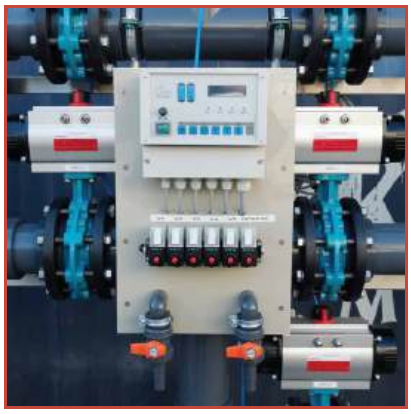
TECHNICAL SPECIFICATIONS		
Appearance		Reddish Crystalline Granules
Base Material		Iron Oxide Based Minerals
Porosity		24 - 32 %
Particle Size	SI	0.6-1.4 mm
Mesh size	US	14 x 30
Bulk Density	SI US	1050 Kg/m^3 65.5 lb/ft^3
Service flow rate	SI US	15 - 30 m/h 6 - 12 gpm/ ft^2
Backwash velocity	SI US	20 - 25 m/h 8 - 10 gpm/ ft^2

SYSTEM DESIGN

The system can be designed either manual backwash or by using automatic backwash cycle. The backwash cycle is a approximately of 10 minutes which uses 80% less water than any traditional anthracite or multimedia filters. It is because 90% of the solids are captured on the surface and not inside of the **CRYSTOLITE™** media-bed. Using **CRYSTOLITE™**, Backwash water reduction is up to 80%.

HIGH EFFICIENCY IN REMOVAL OF FINE PARTICLES

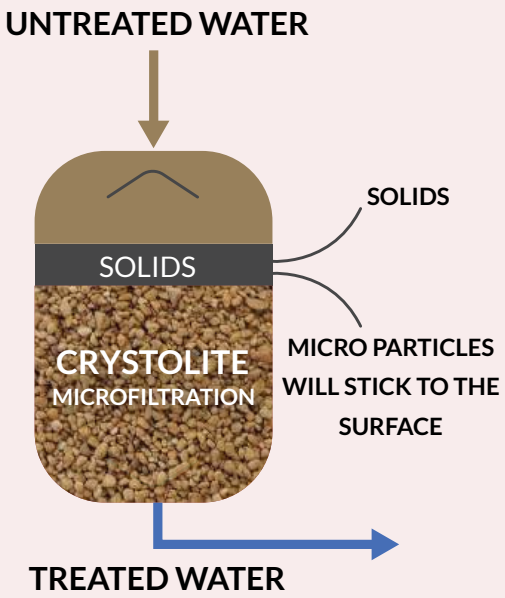








SYSTEM





Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Bag (28 L)	30 kg	40	1225 kg
Bulk Bag (1000 L)	1060 kg	1	1085 kg

NSF/ANSI/CAN 61

★ *Other packaging can be considered on request*

AQUARedox

Advanced MOF For Chemical-free Water Disinfection



AQUARedox is the world's first **High-Redox Technology**, a next-generation granular filtration media that revolutionizes water treatment by **Advanced Oxidation-Reduction (Redox)** processes.

AQUARedox is uniquely engineered using two specialized carbon-based adsorbers:

Together, these two **highly conductive, regenerable carbons** create an **electrochemical Redox reaction** that eliminates at an atomic level. **This self-sustaining redox cycle** ensures superior oxidation, disinfection, and organics removal, including heavy metals, setting a **new standard in water treatment** efficiency.

APPLICATIONS

- Drinking Water Purification
- Industrial Wastewater Treatment
- Cooling Water Treatment
- Reverse Osmosis & Membrane Pretreatment
- Aquaculture & Agriculture



HOW AQUAREDOX WORKS

THE REDOX MECHANISM

AQUARedox is a **dual-function granular filtration media** that integrates:

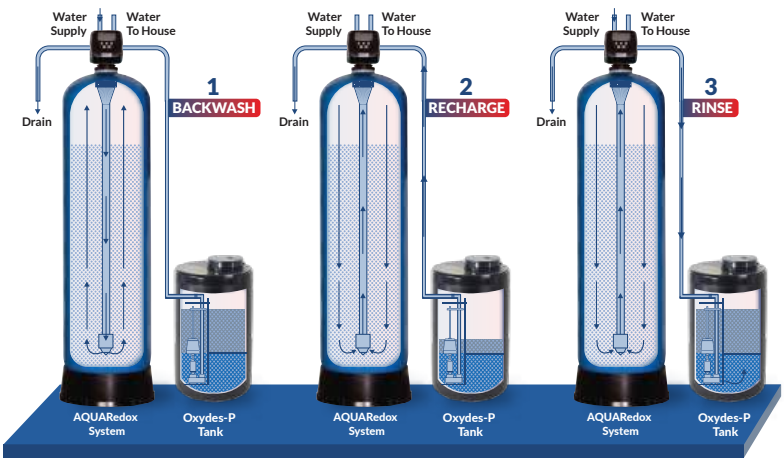
- **Zinc-Coated Activated Carbon as an Anode** (Electron Donor)
- **Copper-Coated Activated Carbon as a Cathode** (Electron Acceptor)

As water flows through the **AQUARedox filtration media**, it undergoes a **continuous electro chemical re-action**, where the **zinc-coated carbon donates electrons (Oxidation)** and the **copper-coated carbon accepts electrons (Reduction)**. This controlled redox environment **destroys organic contaminants, reduces heavy metals, and neutralizes harmful microorganisms**.

Zinc (Zn) Oxidation	Copper (Cu) Reduction
$Zn \rightarrow Zn^{2} + 2e^{-}$	$Cu^{2+} + 2e^{-} \rightarrow Cu$

This reaction produces highly active Hydroxyl Radicals ($OH^{\bullet}$), Sulfate Radicals ($SO_4^{\bullet}$), Superoxide Radicals ($O_2^{\bullet}$) Making **AQUARedox** one of the **most powerful non-toxic oxidizers available**.

REGENERATION PROCESS



REGENERATION STEPS

STEP 1 The backwash phase removes dirt from the **AQUARedox** pressure vessel (Set 10 Minutes Backwash time).

STEP 2 Recharging the **AQUARedox** tank with 5% **Oxydes-P** Solution. Set 30 minutes for **Oxydes-P** solution to be cycled.

STEP 3 The final rinse phase clean the **AQUARedox** media and loads the **Oxydes-P** tank so it's ready for the next regeneration. Rinse with clean water for 10 minutes & Media is fully reactivated for reuse.

KEY FEATURES & BENEFITS

- **KILLS BACTERIA & VIRUSES**
- **NEUTRALIZES ALL DISINFECTION BYPRODUCTS**
- **ELIMINATES ORGANIC POLLUTANTS**
- **ELIMINATES 99.9% OF PERSISTANT ORGANIC POLLUTANT**
- **ELIMINATES PHARMACEUTICALS**
- **REMOVES HEAVY METALS**

This revolutionary, regenerable and environmentally friendly media is poised to replace every traditional disinfection and oxidation method, making water treatment safer, more efficient, and more sustainable.

For more details on pool treatment, please refer to our application-specific professional brochure for AQUARedox POOL TREATMENT.

TECHNICAL DATASHEET

Parameter	Details
Product Name	AQUARedox
Technology Type	High-Resolution Redox-Media
Base Material	High-Class Activated Coconut Carbon
Coating	MOFs (Metal-Organic Frameworks)
Composition	70% Copper-Coating + 30% Zinc-Coating
Appearance	Granular, Dark Grey/Black
Regeneration	Fully regenerable with Oxydes-P
Toxicity	Non-Toxic, Environmentally Safe

CHEMICAL & PHYSICAL PROPERTIES

Parameter	Value
Oxidation-Reduction Potential (ORP)	+900 to +950 mV
pH Stability Range	6.0 – 9.5
Sulfate Radical Generation	YES
Hydroxyl Radical Formation	YES
Reaction Speed	Very Fast
Chemical-Free	YES
Power-Free	YES
Maintenance-Free	YES
Cost Effective	YES



Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Bag (30 L)	20 kg	40	825 kg
Bulk Bag (1000 L)	670 kg	1	695 kg

★ *Other packaging can be considered on request*

ACTIVESORB-CX

Coconut Shell Activated Carbon

ACTIVESORB®CX high catalytic activity granular activated carbon based on coconut shell. Large extensive internal pore structure for high adsorption capacity and rapid removal of chlorine and chloramines. **ACTIVESORB®CX** available in various granular sizes, pellets and powder.

This granular activated carbon is used for water treatment applications in fixed bed media filters. It is used for removal of taste, odor, chlorine, and dissolved organic contaminants from potable and process water.

APPLICATIONS

- Drinking Water Purification
- Point of Use (POU) / Point of Entry(POE)
- Municipal Drinking Water
- Beverage Production
- Protection Ion Exchange
- Municipal Wastewater Treatm
- Industrial Wastewater Treatme
- Process Water and Ultra Pure W
- Swimming Pools
- Aquarium Filters



FEATURES AND BENEFITS

- Catalytic activity
- Large & extensive internal pore structure
- Optimized density
- Rapid dichlorination
- Maximum hardness
- Low dust and turbidity
- Excellent adsorption capacity
- Low filtered water turbidity

TYPICAL PROPERTIES	
Mesh Size	8x30 (0.600 -2.36 mm)
Surface Area (BET)	1100 m^2/g
Apparent Density	522 kg/m^3
Bulk Density	525 - 540 kg/m^3
pH	9 -11

SPECIFICATIONS	
Iodine Value	min. 1100 mg/g
Moisture content, as packed	max. 3%
Total ash content	max. 4%
Ball-pan hardness	min. 98%
CTC activity	min. 55%
Catalytic activity	min. 20%



Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Bag (48 L)	25 kg	20	525 kg
Bulk Bag (960 L)	500 kg	1	525 kg

NSF/ANSI/CAN 61

★ *Other packaging can be considered on request*

ACTIVESORB-AG

Silver Impregnated Activated Carbon



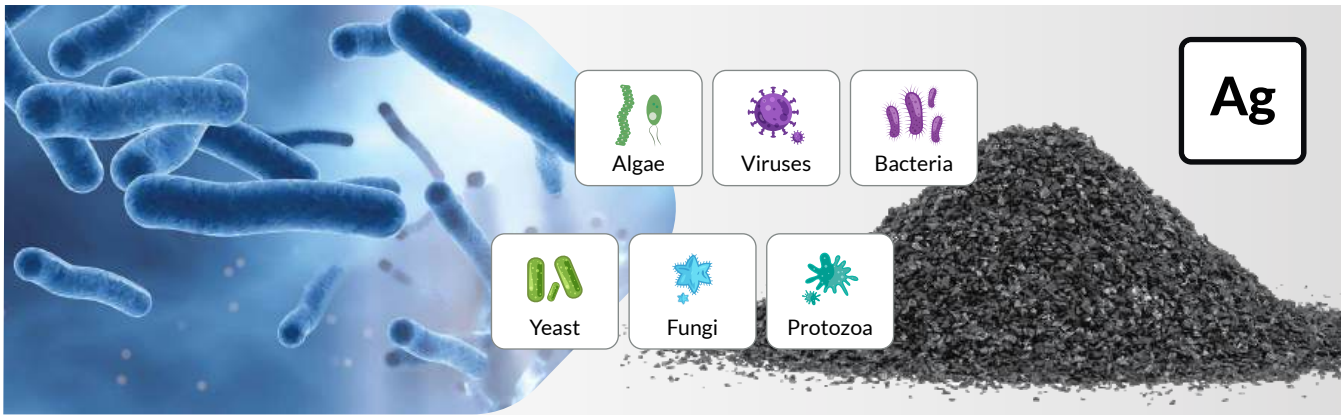
c is a silver-impregnated coconut shell based granular activated carbon specifically designed and made for bacteriostatic properties that avoids microorganism growth inside purifiers and trace removal. It is a catalytic, high activity granular activated carbon manufactured by steam activation of selected coconut shells under rigidly controlled conditions.

Our grade AG was designed to avoid bacterial growth and can be used in wide variety of applications. The antimicrobial properties of silver impregnated on the carbon makes especially valuable in most water purification applications where bacterial growth on filter media can become an issue.

The silver impregnation of carbon **ACTIVESORB-AG** imparts bacteriostatic properties that inhibit bacterial growth on the carbon filter media. Silver exhibits a self-sterilizing property called the oligodynamic effect that is recognized as an effective method for controlling microbial growth in drinking water application.

APPLICATIONS

- Point-of-Entry (POE)
- Point-Use (POU)
- Residential Water Treatment
- Pharmaceutical Steam Purification



FEATURES

- Antimicrobial (with bacteriostatic properties)
- Extensive internal surface
- Predominance of micropores
- Improves taste and odour of water.
- Optimized density
- Maximum hardness
- Low dust and turbidity
- Excellent adsorption capacity
  High volume activity
  Rapid Dechlorination
  Low filtered water turbidity



Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Bag (30 L)	19.2 kg	40	793 kg
Bulk Bag (1000 L)	640 kg	1	665 kg

★ *Other packaging can be considered on request*

CATALYTIC CARBON™

Regenerable Iron Coated Activated Carbon



CATALYTIC CARBON is made of coconut shells and coated with iron to enhance the adsorption of both organics and inorganics. It is a granulated activated carbon that achieves high activation through catalyzed iron-hydroxide. This process amplifies the adsorption of negatively charged contaminants, leading to an exceptionally high capacity for chloramines, trihalomethanes, hydrogen sulfide, and chlorine. Iron Catalyst has the highest oxidation and adsorption pores "Inside as well as Outside the Activated Carbon.

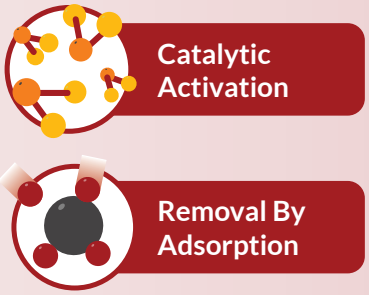
CATALYTIC CARBON is the only available carbon in the market which is regenerable. **CATALYTIC CARBON** can be regenerated on site, by applying our **OXYDES®-P** oxidant (powder oxidant), which allows it to have a lifetime between 2 to 5 years.

APPLICATIONS

- Drinking Water Purification
- Point of Use (POU) / Point of Entry(POE)
- Municipal Drinking Water
- Beverage Production
- Protection Ion Exchange
- Municipal Wastewater Treatment
- Industrial Wastewater Treatment and Reuse
- Swimming Pools
- Aquarium Filters
- Process Water and Ultra Pure Water

REMOVAL OF

- Humic Substances
- Chloramines
- Color and Odor
- Trihalomethanes
- Tannins and Lignins
- Phenols as p-nitro phenol
- Cyanides
- Heavy Metals: Arsenic, Boron, Bromides, Chromium, Copper, Lead, Mercury



FEATURES

- Removal of multiple contaminants
- Regenerable (OXYDES®-P)
- Long life time (2 to 5 years)
- Higher adsorption



SYSTEM DESIGN

FLOW RATE	FILTRATION RATE	BED CONTACT TIME	CC MEDIA	OUTLET WATER QUALITY
	40 Bed-Volume/h*	90 seconds	25 liters	Satisfactory
1 m^3/h	30 Bed-Volume/h**	120 seconds	33 liters	Very Good
	≤ 20 Bed-Volume/h	180 seconds	50 liters	Best

Standard filtration rate is recommended to be set at max. 40 BV/hour to provide 90 seconds contact time (recommended minimum) to yield satisfactory results. Required filtration rate varies according to the inlet water contaminants. Adjustment to the optimum pH range is required depending on the contaminant to be removed.

TECHNICAL SPECIFICATIONS		
Appearance		Red-Black Coarse Granules
Particle Size	SI	0.6-2.4 mm
Mesh size	US	8 x 30
Surface area (BET)		2000 – 2500 m^2/g
Bulk Density	SI US	630 – 640 kg/m^3 39.2 - 40.0 lb/ft^3
Moisture Content		5 % (max.)
Ball Pen Hardness		98% (Min.)
Flow Direction		Can be designed both up-flow (packed bed) and down-flow
Filtration rate	US	10 – 30 BV/h (maximum 40 BV/h)
Backwash velocity	SI US	10 - 20 m/h 4 - 8 gpm/ ft^2

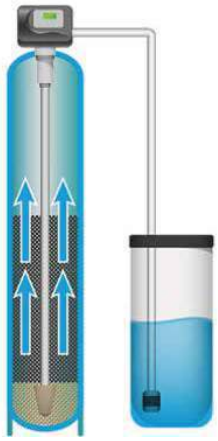
REGENERATION

CATALYTIC CARBON can be reactivated up to 99% with Superoxide System. The regeneration system is similar to that of a Water Softener with a brine tank and control valve. Desorption and Destructionof all organics and adsorbed heavy metals can be achieved by 1% strength solution of **OXYDES®-P** (Catalyzed Super Oxide. **OXYDES®-P** is based on Fenton's reagent and generates hydroxyl radicals (OH •), which are so strong that it oxidizes all possible organics from the surface of Activated Carbon.

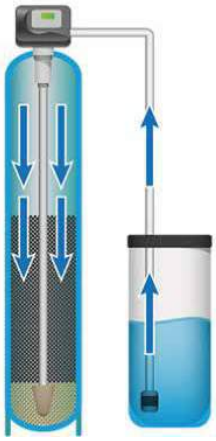
Note: The regeneration is every six month and the solution is prepared fresh just before the regeneration.

EASY REGENERATION WITH OXYDES®-P

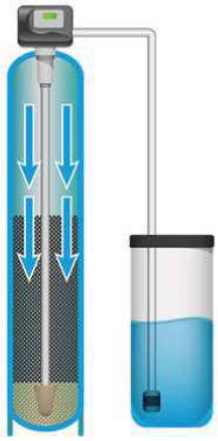
- Backwash – 5 to 10 minutes
- Suction of regenerant (OXYDES®-P) 15 to 30 minutes
- Fast rinse – 5 to 10 minutes
- Back to service



1. Backwash



2. OXYDES®-P Regeneration



3. Fast Rinse



Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Bag (30 L)	21 kg	40	865 kg
Bulk Bag (1000 L)	700 kg	1	725 kg

NSF/ANSI/CAN 61

★ *Other packaging can be considered on request*

CATALYTIC CARBON-MG

Regenerable Carbon - Adsorption: PFOA, PFOS, PFAS



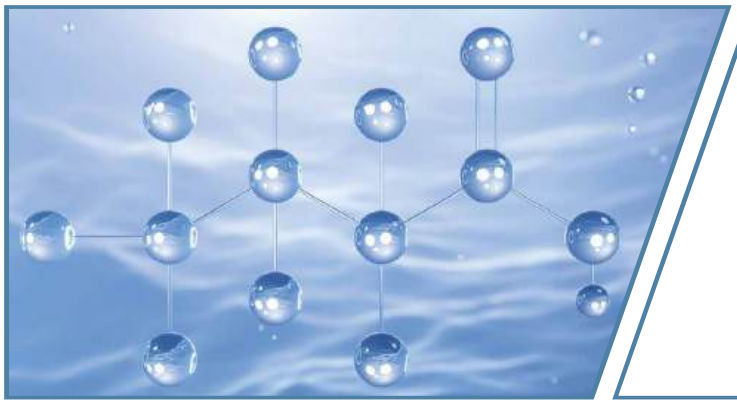
The most emerging technology for the removal of **PFOA/PFOS** is **Watch Water®** adsorption treatment technology **CATALYTIC CARBON-MG**, which is Zero Valent Iron (ZVI) activated carbon with an MGO surface. This means **CATALYTIC CARBON-MG** is the only granule-based material available in the market with a highly positive surface, which is very important to break down a long chain of perfluorinated compounds. It offers for direct degradation of Perfluorinated compounds (PFCs) and removal of PFOA equal to 95%.

APPLICATIONS

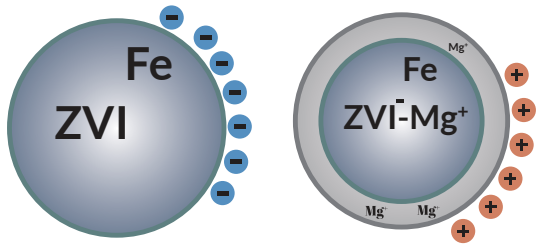
Residential | Commercial | Industrial | Drinking Water Purification | POU & POE | Municipal Drinking Water

CATALYTIC CARBON CAN BE USED TO REMOVE

- Perfluorooctanoic Acid (PFOA)
- Fluorosurfactant fluorinated substances
- Perfluorinated Carboxylic Acids (PFCAs)
- Perfluorinated Alkylated substances PFASs



GRAPHICAL ABSTRACT



Catalytic Carbon | Catalytic Carbon-MG

ADVANTAGES

- Effective Removal of PFCs
- Environmentally Friendly
- High Removal Efficiency
- Regeneration and Reusability
- Wide Applications
- Surface Chemistry
- Proven Effectiveness
- Extended Service Life

TECHNICAL SPECIFICATIONS

Appearance		Greenish Black solid granules
Particle Size	SI	0.6 - 2.4 mm
Mesh size	US	8 x 30
Surface area	BET	2000 – 2500 m2/g
Moisture Content		5 % (max.)
Ball pen hardness		98 % (min.)
Bulk density		640 – 650 kg/m3
pH		9.5
Expected service life		2 – 5 years



Standard Packaging

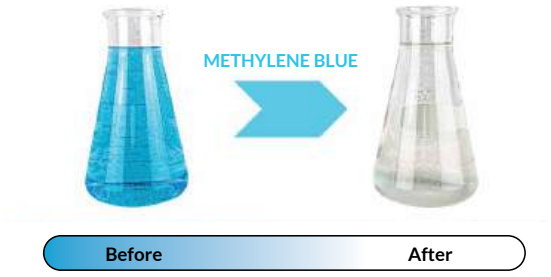
Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Bag (30 L)	21 kg	40	865 kg
Bulk Bag (1000 L)	700 kg	1	725 kg

★ *Other packaging can be considered on request*

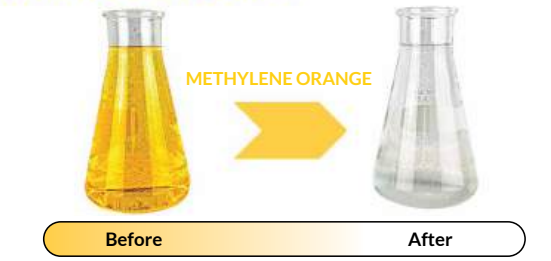
DYEOXY+SORB

Removal of Toxic Dye Pollutants from Wastewater

Dyes are used in various industries as coloring agents. Dyes consist of many toxic materials which can seriously impact the environment. Tons of dyes are discharged daily into the environment as aquatic waste. The discharge of these dyes, specifically synthetic dyes in wastewater, represent a serious environmental problem and causes public health concerns.



DYEOXY®+DYESORB® is a two-step process for the removal of all types of dyes including many other pollutants from water or wastewater. DYEOXY® is based on Advanced Oxidation Process (AOP) and powers every dye degradation. This coupled with an advanced DYESORB® system, based on Metal Organic Framework (MOF), delivers the highest quality water-reuse in any factory environment.



APPLICATIONS

- Textile Dyeing Industry
- Industrial Wastewater
- Leather Industry
- Plastic Industry
- Many Industrial Applications







Standard Packaging

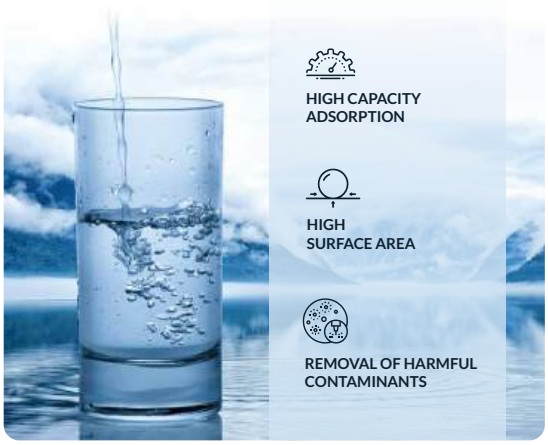
Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Bag (30 L) - DyeSorb	20.7 kg	40	853 kg
Drum - DyeOxy	60 kg	18	1163 kg

★ *Other packaging can be considered on request*

HydroSorb

Advanced Adsorption Technology with MOF

HydroSorb by **Watch Water®**: A top innovation in water management and Adsorption technology, HydroSorb captures, retains, and purifies water, tackling water scarcity, pollution, and resource management challenges.



TARGETED CONTAMINENTS

- Organic Contaminants
- Inorganic Contaminants
- Taste and Odour Compounds
- Radioactive Contaminant
- Heavy Metals
- Nutrients
- Microbial Contaminants
- Emerging Contaminants

KEY FEATURES & BENEFITS

Superior Adsorption Capacity: : Utilizes advanced Covalent-Organic Frameworks (COFs) and Metal-Organic Frameworks (MOFs) for unmatched adsorption rates, ensuring efficient water capture and retention.

Innovative Technology: Proprietary synthesis and manufacturing create highly porous, stable, and functional frameworks. Rigorous quality control ensures top performance and reliability. Eco-friendly practices minimize environmental impact while maximizing innovation.

Highly Selective: Targets specific pollutants for cleaner and safer water across various applications.

Eco-Friendly Solution: Made from environmentally friendly materials and processes, contributing to a greener future while addressing water challenges.

Versatile Applications: Suitable for drinking water, industrial processes, wastewater, and environmental remediation, helping maximize water efficiency and minimize waste.

APPLICATIONS

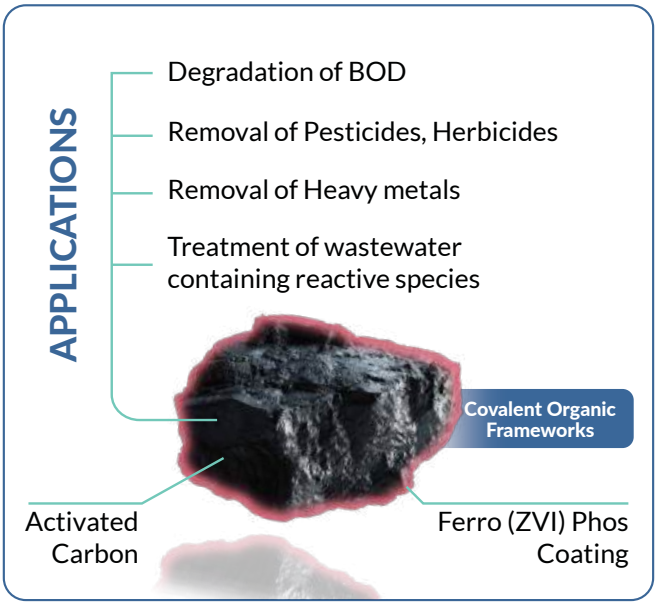
Drinking Water (POU & POE) | Drinking Water (Commercial) | Drinking Water (Municipalities) | Wastewater Treatment | Industrial Processes

The incorporation of **Ferrophos** ions into **HydroSorb** is a unique process developed by Watch Water. **ZVI-Coated HydroSorb** is unique and used in "Water" as well as "Wastewater" treatment processes for the following:

PRODUCT DETAILS

- FerroPhos Coated Activated Carbon
- COF (Covalent Organic Framework) and MOF (Metal Organic Framework)

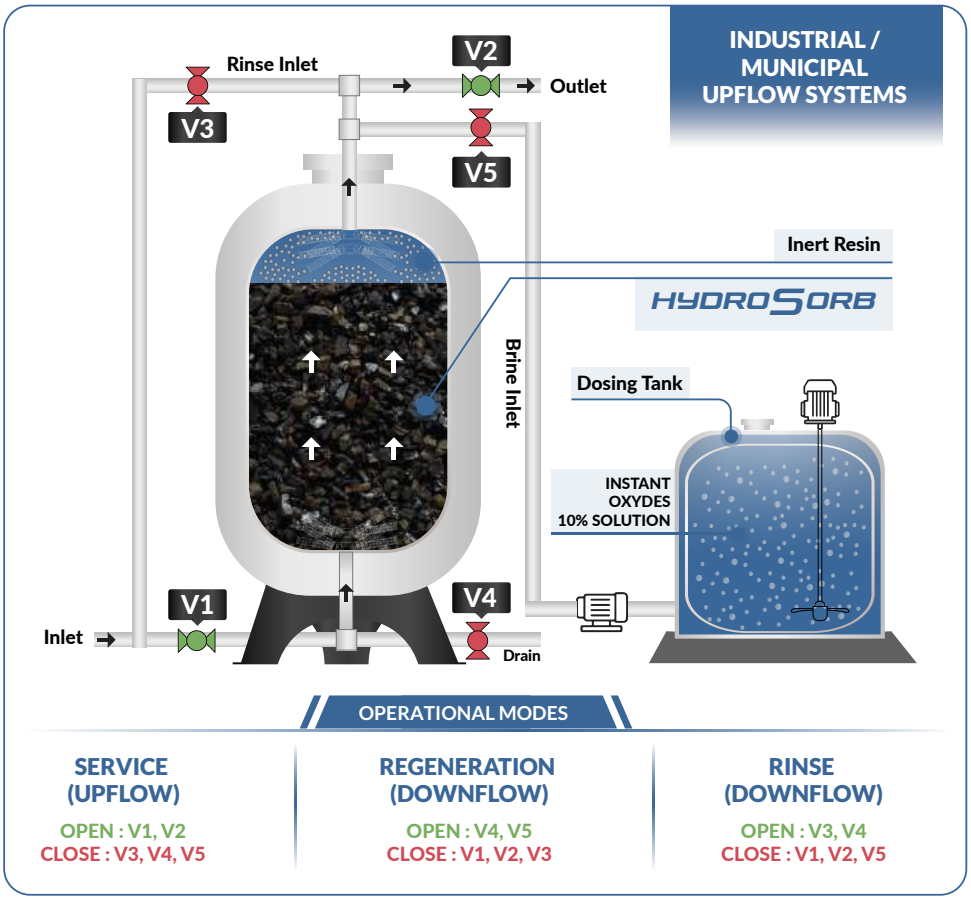
PHYSICAL PROPERTIES		
Appearance		Black Granules
Bulk Density	SI	730 - 750 kg/m^3
	US	45.5 - 47 lb/ft^3
Moisture Content		5% (max.)
pH		6 -7
Particle Size		0.6 - 2.4 mm
Mesh Size		8 x 30
Highest Surface Area		6000 - 6500 m^2/g



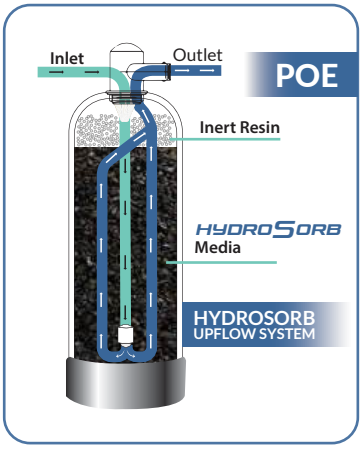
SYSTEM DESIGN

UPFLOW HYDROSORB SYSTEM

Upflow **HydroSorb** Adsorber systems have distinct advantages over downflow systems. Both designs have their own uses and benefits, but upflow systems are particularly suited for residential and small applications. They require minimal maintenance and effectively treat water contaminants. **HydroSorb** systems are ideal for home installations as they operate without valves or electricity with upflow system design and **Point of Use (POU)** filter with **Quick Exchange System (QES).**







OPERATING CONDITIONS (DOWNFLOW)	
Temperature	15 - 80°C
Pressure	2 - 8 bars
Flow Rate	0.1 m^3/h - unlimited
Bed depth	100-120 cm
Freeboard	30%
Backwash	15 min every month
Backwash Velocity	10-20 m/h (15 minutes)
Rinse Velocity	20 m/h (5 minutes)

Regeneration of *HYDROSORB* *INSTANT OXYDES* is the advanced method due to its oxidative properties.

UPFLOW - OPERATIONAL PARAMETER		
Bed depth	Up Flow	120 cm
Freeboard	Up Flow	10%
Flow Rate	Service	20 BV/h
Slow Rinse Velocity		10 m/h (15 minutes)
Fast Rinse Velocity		20 m/h (5 minutes)



Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Bag (30L)	22 kg	40	905 kg
Big Bag (1000L)	735 kg	1	760 kg

★ *Other packaging can be considered on request*

FERROLOX

Iron Hydroxide Based High Capacity Adsorber

FERROLOX® (Iron Hydroxide) granules are among the best adsorber to load major contaminants in drinking water applications with high loading capacity. **FERROLOX®** high surface activation, ferric (III) hydroxide allow strong adsorption bond with Arsenate, Phosphate, Copper, Chromium, Selenium and Hydrogen Sulfide in aqueous media.

FERROLOX® media can be used in a variety of water treatment applications, ranging from large-scale municipal systems to small-scale residential treatment units. To guarantee the **FERROLOX®** media performs effectively and without issues, certain operational design factors need to be considered, regardless of the system size. Guarantee performance for Point-Of-Use (POU) /Point-of-Entry (POE) application could be simply achieved with Ferrolox and high-performance efficacy.



HIGH CAPACITY GRANULAR ADSORBENT

APPLICATIONS

- Drinking Water
- Well Water
- Sea Water
- Surface Water
- Waste Water
- Reverse Osmosis
- Aquariums
- Concentrate
- Industrial Water

OPERATION PRINCIPLES

Arsenic and Phosphate removal

In the first step, arsenate or phosphate ions in aqueous solutions were bounded to the surface of **FERROLOX®** by adsorption. Second step, is a chemical conversion to stable ferric arsenate or ferric phosphate to the surface of **FERROLOX®**

$$Fe(OH)_3 + H_3PO_4 \rightarrow FePO_4 + 3H_2O$$

$$Fe(OH)_3 + H_3AsO_4 \rightarrow FeAsO_4 + 3H_2O$$

Hydrogen Sulfide Removal

Sulfide ions formed from hydrogen sulfide in water are removed in a similar way under precipitation of hardly soluble ferric sulfide.

$$2\,Fe(OH)_3 + 3H_2S \rightarrow Fe_2S_3 + 6H_2O$$

UNPARALLED
HEAVY METAL
REMOVAL

REMOVAL OF

- Arsenic
- Phosphates
- Copper
- Chromium
- Hydrogen Sulfide
- Selenium (IV & VI)

SYSTEM DESIGN

The Watch Water® **UP FLOW Adsorption** system is an advanced design that uses best innovation and Watch Water® extensive **Adsorption** experience to deliver a very compact design. When compared to all conventional filter systems, this up-flow system provides the following advantages.

COMPACT DESIGN

The construction of Watch Water® **UP-FLOW Adsorbers** systems permit a very smooth flow rates up to 2000 litres per minute in a single pressure vessels (1200 m^3 /hr). The result?



Very few pressure vessels can accommodate your flow requirements. In fact, the Watch Water® **UP-FLOW Adsorbers** require 50% less number of tanks. Using less pressure vessels enables a reduction in the size of building required for conventional down flow systems. The result is lower capital investment costs

DISPOSAL OF SPENT MEDIA

After the expiration of capacity, FERROLOX® can be advantageously utilized as a very useful component for manufacturing bricks.

FERROLOX® is one the best and safest technology to remove arsenic, copper, chromium, phosphates and hydrogen sulfide from water and waste water. FERROLOX® technology is applied in UPFLOW adsorption, the adsorbent is utilized 100% of its apacity. This technology is not only the most economical but also the most effective. It can be used in POE Residential applications in rural areas with hand tube-wells, as well as for large scale applications in towns with community water works.

EASE OF USE

The *Watch Water®* **UP-FLOW Adsorber** systems are designed with ease of use in mind. **NO valves, NO electricity, NO backwash, NO chemicals** it absolutely user friendly that makes Adsorber installation and removal to exchange Adsorber material easier without the use of special tools or labour. Open the tanks on top let the media flow out and fill it back with new media, it's so easy. **UP-Flow Adsorbers** minimizes labour, operator and maintenance costs. Reproduce NO effluent, while no backwash. **UP-FLOW** pressure vessels are **50% smaller** than down-flow system.

FERROLOX®
Zero Environmental Concerns

MATERIAL PROPERTIES	
Chemical formula and composition	Amorphous Fe(OH)3
Mineralogical Composition	Up to 40% of Ferric Ions from its dry weight

TECHNICAL SPECIFICATIONS	
Appearance	Dark Brown
Freeboard (Up-Flow)	630 - 640 kg/m3
Specific surface	290 m2/g
Particle Size	0.5-2.0 mm
Service Velocity	10 - 20 m/h
Backwash velocity	25 - 30 m/h
Total adsorption capacity for P5+	16 g/kg
Total adsorption capacity for As5+	13 g/kg
Oxidation capacity for H2 S	Up to 22% of its dry weight
pH	5 – 9.5



Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Bag (30 L)	19 kg	40	785 kg
Bulk Bag (1000 L)	634 kg	1	660 kg

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★ *Other packaging can be considered on request*

FERROLOX-X

Metal Organic Frameworks Adsorber

FERROLOX-X is a Metal Organic Framework (MOF) based Adsorbent that can selectively capture soluble organic, inorganic & heavy metals in water. The **FERROLOX-X** granules have carbon core surrounded by a Hematite ferrite shell. It has one of the highest adsorption capacity and can be applied in a very simple passive pump and treat system, which is nothing but Fixed Bed Adsorption technology.



REMOVAL OF

- Arsenic
- Phosphates
- Copper
- Chromium
- Hydrogen Sulfide
- Selenium (IV & VI)

WORKING PRINCIPLE

Since adsorption is a surface process, **FERROLOX-X** high internal surface area is a game changer. The surface area consists of 70% Mesopores, 20% Macropores and only 10% micropores. The macropores and mesopores are primarily relevant for the mass transfer into the internal pores. **FERROLOX-X** surface is covered with OH groups. These groups are subject to

Protonation

$$S - OH + H^+ \leftrightharpoons S - OH+2$$

Deprotonation

$$S - OH \leftrightharpoons S - O^- + OH^+$$

TECHNICAL SPECIFICATIONS

Appearance	Solid MOF Granules
Particle Size	0.5 - 2.0 mm
Mesh size	10 x 35
Surface area (BET)	3000 m^2/g
Service Velocity	15 - 30 m/h
Backwash Velocity	25 - 30 m/h
Freeboard	40%
Flow Direction	Downflow





Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Drum (60 L)	41 kg	18	822 kg
Bulk Bag (1000 L)	685 kg	1	710 kg

★ *Other packaging can be considered on request*

FERROLOX-XG

Metal Organic Frameworks Adsorber - Gases

FERROLOX-XG is Carbon based Metal-Organic-Frameworks for capturing and degradation of toxic gases and vapors. Removing the troublesome and highly toxic gaseous impurities like Hydrogen Sulfide (H_2S) and Carbon-dioxide have become so simple and effective using this Metal (Iron Hydroxide) - Organic (Carbon) - Framework (MOF). **FERROLOX-XG** adsorber can be regenerated by using Oxygen-Based-Regeneration OXYDES-XG.



APPLICATIONS

- Oil & Gas Industry
- Refineries
- Gases in Oil Well
- Fuel Tanks
- Biogas Industry
- Wastewater & Odour

REMOVAL OF

- Simple and Highly effective
- Cost-effective
- Eco-friendly
- Regenerable
- Removal of highly toxic gases
- Degradation of toxic vapours

Adsorb List / Removal Of

NO	H_2S	C_6H_6	$COCL_2$
NO_2	$(CH_3)_2S$	$Ni(CO)_4$	$S(C_2H_4Cl)_2$
(N_2O_4)	NH_3	B_2H_6	$POFCH_3$
N_20	HCN	F_2	(OC_3H_7)
CO	CNCL	Cl_2	$C_{11}H_{26}NO_2P$
CS_2	PH_3	O_3	
CO_5	AsH_3	BV_2	
SO_2	$C\text{-}C_6H_{12}$	I_2	

REMOVAL OF TOXIC GASES

FERROLOX-XG can be used to clean natural gases and other industrial gases containing H_2S and CO_2 worldwide to reap potentially large environmental and economic benefits. This new Lignin-based porous Organic Polymer (LOP) with high surface area and catalysed with iron (III) is highly robust. This Reusable Adsorber can reduce both organic and inorganic pollutants.



M - Metal,
O - Organic,
F - Frameworks

CLEANER GASES WITH INNOVATIVE GAS CLEANUP



Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Drum (60 L)	35 kg	18	715 kg
Bulk Bag (1000 L)	585 kg	1	610 kg

** Other packaging can be considered on request*

TITANSORB

Titanium Dioxide Based High Capacity Absorbent Media

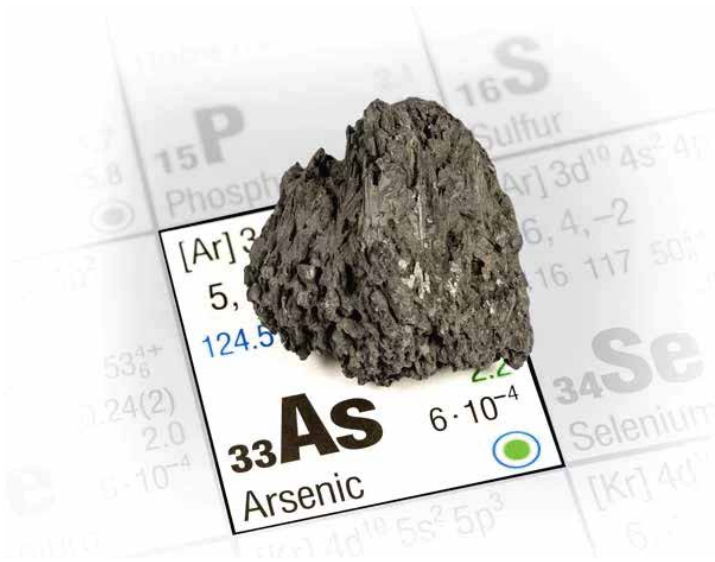


Titanium dioxide is a revolutionary compound that could be mined as minerals in the ground and is commonly found in many industrial applications. It is an advanced adsorbent that could effectively remove **Arsenic (III), Arsenic (V), Cadmium, Copper, Chromium (VI), Lead, Selenium** and many other heavy metals and produces clean drinking water quality.

Watch Water® successfully developed this high-capacity Adsorber has high efficacy and capacity compared to other adsorber in market including superior to Silica concentrations. The breakthrough took Watch Water® five years to develop and patent. TITANSORB™, has immense potential to help tackle ongoing global arsenic problem and other environmental issues, while ensuring safe drinking water.

FEATURES / ADVANTAGES

- Highest Arsenic Loading
- Operates In Wider Ph Range
- Highest Purity
- Reduce Carbon Footprint
- Simple System Design- No Regeneration
- Extremely Fast Kinetics
- High Capacity For Heavy Metals Removal



HIGH CAPACITY TITANIUM DIOXIDE BASED ADSORBER FOR

REMOVAL OF HEAVY METALS

ARSENIC REMOVAL

Arsenic that is detected above the new Maximum Contaminant Level of 10 µg/l, this water is toxic for drinking, cooking, and consumption. Currently Watch Water® recommends arsenic removal for residential and commercial purposes. Areas like hospitals, schools and all other food services especially require arsenic removal system to ensure safe drinking water.

Boiling the water as a method of arsenic removal is particularly not advisable as this will result in higher arsenic concentrations in your water. Ensure safe drinking water with TITANSORB™ for highest efficacy and capacity!

APPLICATIONS

Point Of Use | Point Of Entry | Commercial | Industrial Appliances

OPERATING CONDITIONS

Flow direction	Down-flow
Inlet water pH *	6.5 – 6.9
Max. feed water temp.	40 °C (104 °F)
Pressure rating	3 – 10 bar (43.5 – 145 psi)
Freeboard	40 – 45 %
Minimum bed depth	100 cm (39.4 in)
Filtration velocity	15 – 25 m/h (6 – 10 gpm/ft^2)
EBCT (bed contact time)	30 – 180 sec.
Backwash velocity	6 – 10 m/h (2.4 – 4 gpm/ft^2)
Backwash Volume	5 – 10 BV

* Best Recommendation

SIMPLE SYSTEM DESIGN: NO REGENERATION REQUIRED





Experience TiO_2 Efficiency, Titansorb : Available in POWDER FORM

TITANSORB™ is now also available as a unique crystalline powder called **TITANSORB - P** with high surface area. A combination of crushing and sieving procedures is used to produce this high capacity adsorbent which can easily be integrated into carbon blocks. This will simply increase Arsenic Adsorption capacity for all carbon block manufacturers.



PATENTED EXCELLENCE
UNMATCHED ADSORPTION CAPACITY

LOADING CAPACITY

Contaminants	Tested capacity*
Arsenic (V)	48 – 60 g/kg
Arsenic (III)	20 – 30 g/kg
Chromium (VI)	14 – 18 g/kg

* Under specific laboratory conditions. Results may vary depending on different water parameters.



Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Drum (60 L)	31.5 kg	18	650 kg
Bulk Bag (1000 L)	525 kg	1	550 kg

NSF/ANSI/CAN 61

★ *Other packaging can be considered on request*

TRAPPSORB

Magnesium Oxide Adsorbent For Water Treatment



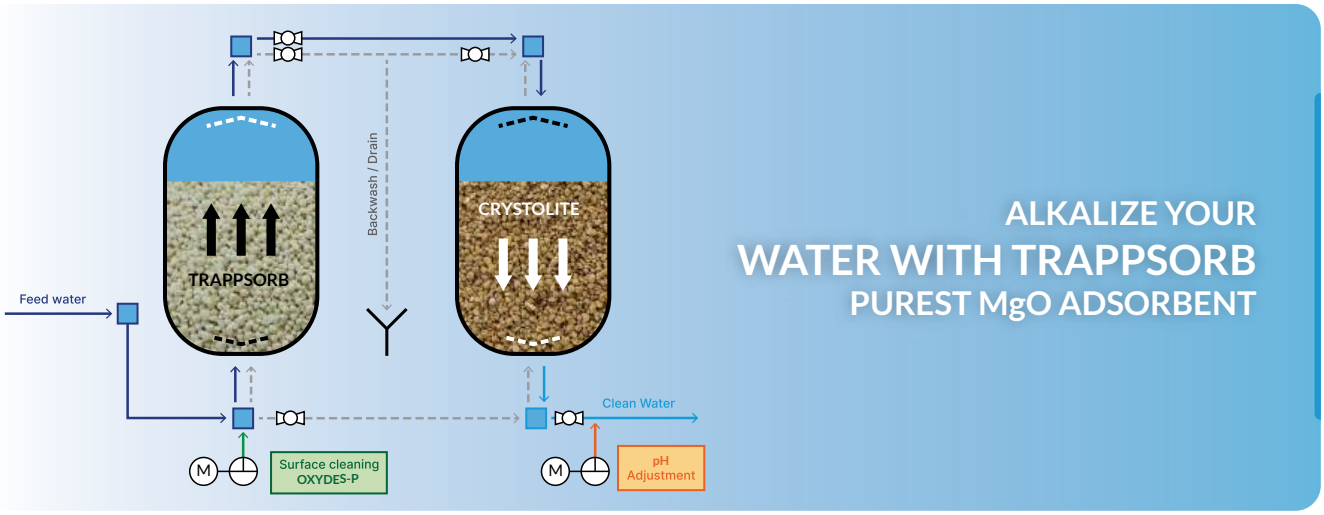
TRAPPSORB® is an adsorber filter material, which is the purest form of **MAGNESIUM OXIDE (MgO) BEADS** with a unique outer surface and structure. **TRAPPSORB®** is porous, amorphous form of MgO. It's unique manufacturing process gives it uniformity and macroscopic pores.

Other commercially available filtration media based on magnesium oxide in the form of granules contain a lot of impurities. **Watch Water®** produces 99.99 % pure form of MgO + CaO free-flowing uniform beads. The information we have gained from the last 45 years has shown that the usage of bead shaped adsorbers is the optimal solution due to its outstanding mechanical characteristics and excellent adsorption rate.

The outer porous surface of **TRAPPSORB®** when exposed to liquids, exhibits a strong physical affinity for these fluids (Physisorption). Different surfaces exhibit different adsorption properties and are adsorbed to different capacities. Molecules which have been adsorbed, can be released with a slow backwash.

REMOVAL OF

- Ammonia
- Boron
- Hydrogen Sulfide
- Heavy Metals
- Phosphorus
- Total Suspended Solids
- Silica



USAGES OF

Filtration

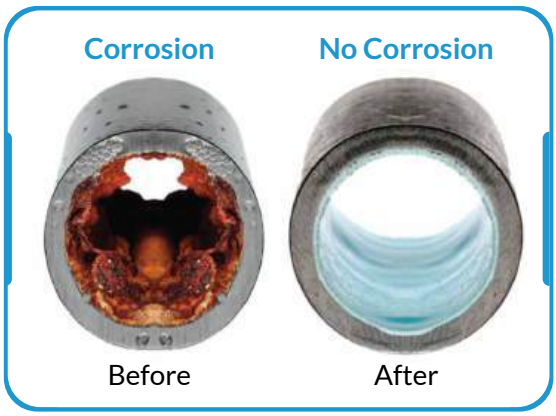
- Filter out suspended solids
- Effective Silica Removal
- Effective Phosphorous Removal
- CO_2 & H_2S removal

Prevention

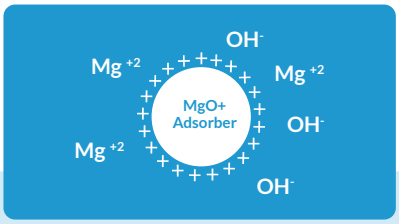
- pH control
- Heavy Metal Precipitation
- Corrosion Control
- Enriching water with healthy minerals

SAFE, ECOFRIENDLY & PH ADJUSTMENT WITHOUT PHOSPHATES

Environmental regulations have become increasingly severe, especially for phosphates, regarding the types and amount of these pollutants that may be released into the environment. We use pure Magnesium based adsorbent, to avoid any corrosion and simultaneously neutralize acidic components from water. **TRAPPSORB®** products are non-hazardous environmental-friendly, safe and cost-effective treatment options for Alkalinity addition and pH adjustment without using phosphates.



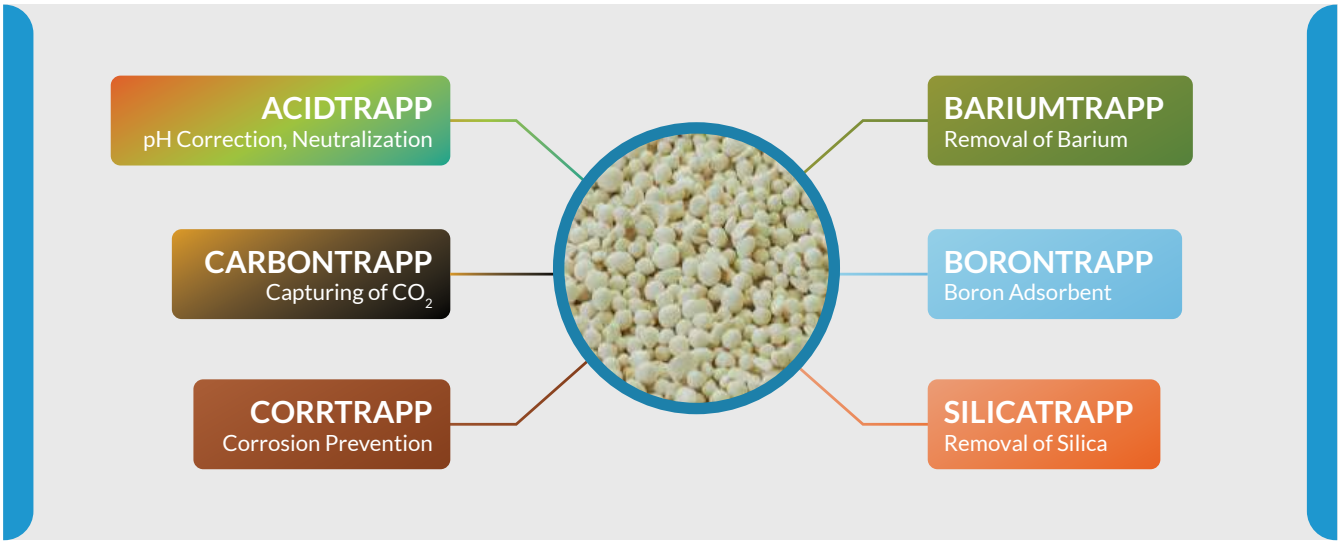
TECHNICAL SPECIFICATIONS		
Composition	Magnesium Oxide (MgO)	80%
	Calcium Oxide (CaO)	10%
	Proprietary	10%
Bulk Density	1153 - 1275 Kg/m^3	
Granule Size	1.2 - 3.4 mm	
Storage	Store in a dry place	
Service Velocity	10 m/h	
Backwash Velocity	28 – 30 m/h	



Trappsorb functions with a concept of adsorption and co-precipitation, Magnesium (Mg^{2+}) & Hydroxide ions (OH^-) released in water by **TRAPPSORB®** precipitate out the heavy metals, which can further be removed by Crystolite & Zeosorb.

TRAPPSORB® Family

Watch Water® TRAPPSORB® (MgO BEADS) is available with different TRADE NAMES as mentioned below for its wide range of applications and for specific contaminant.





Standard Packaging

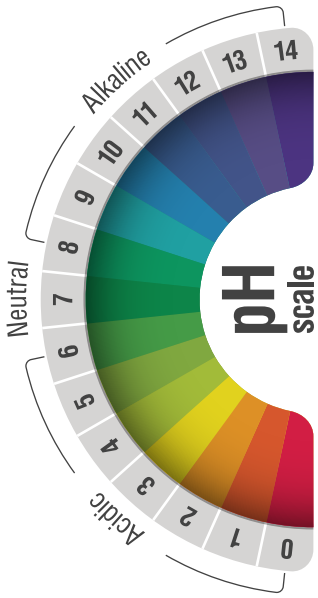
Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Bag (28 L)	34 kg	30	1045 kg
Bulk Bag (908 L)	1103 kg	1	1128 kg

NSF/ANSI/CAN 60

★ *Other packaging can be considered on request*

ACID TRAPP

pH Correction & Neutralization With Acidtrapp

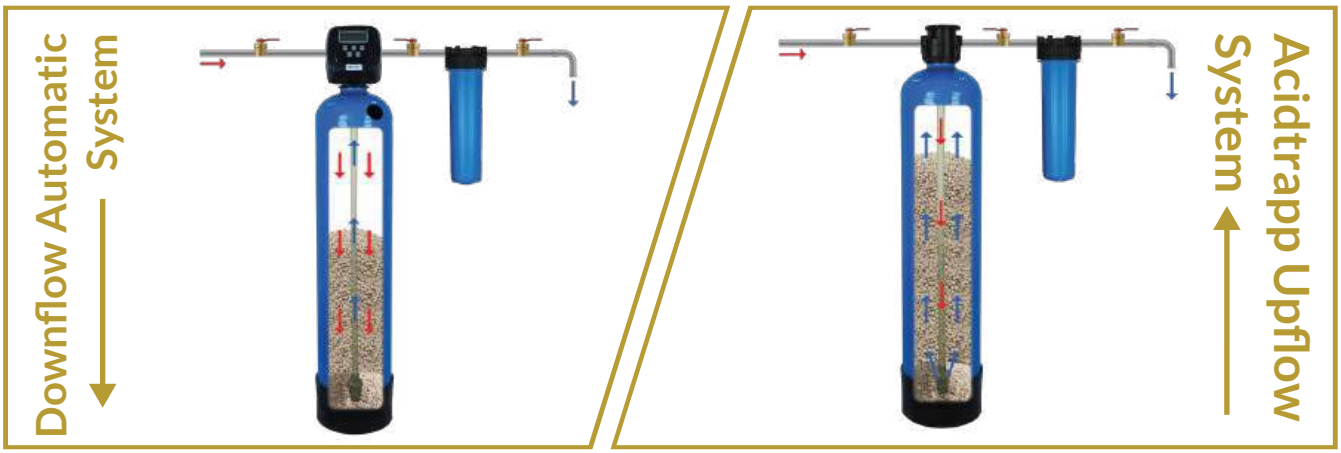


Acidic water is extremely corrosive and can cause detrimental plumbing damages and repair costs. Furthermore, acidic water also leaches heavy metals from eroding pipes, exposing your water to copper, zinc, and even lead.

The current technology for removing ions from acidic chloride and sulphate waste streams is precipitation with a high dosage of sodium (Na) or potassium hydroxide. Although successful, there are so many inherent drawbacks to this precipitation technique. This unique media is most effective in neutralizing acids and has been invented by **Watch Water®** Germany. As with calcite, **ACIDTRAPP®** is also much easier to use. This means that in a poorly designed system **ACIDTRAPP®** (MGO) will not raise pH above 9.0 and is very safe to use. Additionally, with its purity, it is non-toxic and certified to NSF/ANSI/CAN 60 - 2018 drinking water standards.

APPLICATIONS

Drinking Water | Ground Water | Surface Water | Waste Water | POE & POU



ADVANTAGES OF MgO BEADS

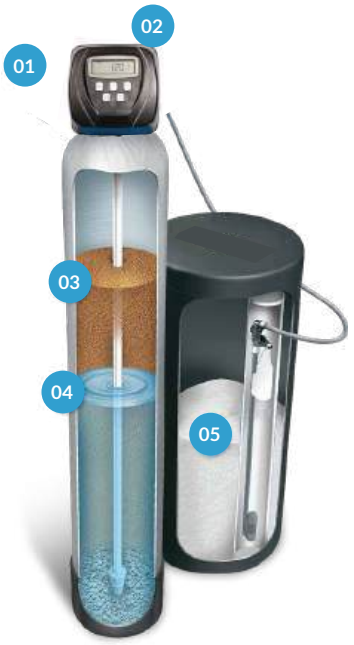
Advantages	Watch Water MGO Beads	Calcite ($CaCO_3$)
Provides Magnesium as a micro-nutrient	Yes	No
Does not Cause Scaling Problem	Yes	No
Long lasting (buffered) Alkalinity & pH control	Yes	No
Long lasting corrosion control	Yes	No
Heavy Metal Precipitation	Yes	No
Radionuclides Precipitation	Yes	No
Easy and safe to handle Non-Hazardous & Non-Corrosive	Yes	No
Environmentally Non-toxic	Yes	No
Very safe for the Environment	Yes	No

*ACIDTRAPP packaging is same as TRAPPSORB

NITRO TRAPP

Selective Nitrates Adsorption & Desorption

NITROTRAPP is the world's first High Capacity Adsorber plus De-adsorber to **selectively Trapp-Nitrates**. It has **5 times** higher capacity than any other commercially available adsorber in the market. **NITROTRAPP** is certified and has been specially manufactured to meet Drinking Water standards. Nitrotrapp beads are based on very selective chemical and physical properties. It has very high selectivity for Nitrates and none of the other competitive ions like sulfate, silicates, phosphates, or bicarbonates. Nitrotrapp beads are selectively manufactured in chloride form but can be regenerated with following available salts – KCl, MgCl, $Mg(HCO_3)$, KOH, MgOH.



1. Automatic Valve
2. Inlet/Outlet
3. Nitrotrapp
4. Treated water through Nitrotrapp
5. Regenerant (Magnesium Chloride, Potassium Chloride, Magnesium Bicarbonate, Magnesium Hydroxide, Potassium Hydroxide, Sodium Chloride)

APPLICATIONS

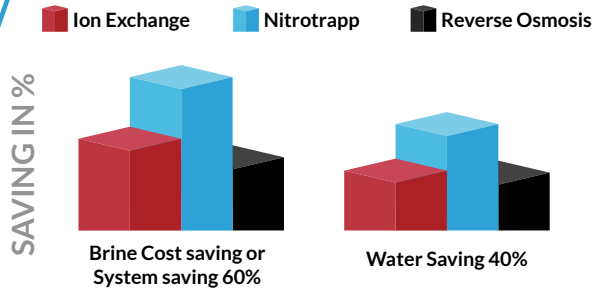
- Muncipal Systems
- Point-of-Entry (POE)
- Point-of-Use (POU)
- Aquafarm's And Fish Farming
- Waste Water



CIRCULAR ECONOMY WITH NITROTRAPP

An Economical and Eco-Friendly Approach to Managing Brine Waste through the Incorporation of Potassium Chloride and Magnesium Chloride

SAVINGS with NITRATRAPP



Nitrate Health Issues

Nitrate is one of the most common groundwater contaminants in rural areas. It is regulated in drinking water primarily because excess levels can cause methemoglobinemia, or "blue baby syndrome". Nitrates also indicate the possible presence of other more serious residential or agricultural contaminants, such as bacteria or pesticides. On ingestion, Nitrate gets converted to other nitrogen compounds like nitrites and nitroso which are carcinogenic to humans and may increase cancer risks.



Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Drum (60 L)	40.2 kg	18	812 kg

** Other packaging can be considered on request*

MULTI TRAPP-6P

Six In One Powder Adsorber

MULTITRAPP-6P is a complex mixture of **6 different** Watch Water® powder products each having their own unique properties. The benefits of each product combine and generate the ultimate powder that can be integrated into any **Carbon Blocks**. These cartridges can remove all kinds of contaminants from water. Some of the major contaminants include **Iron, Manganese, Chloramines, THMs, Organic Matter, PFOA, PFOS, Heavy metals** along with removal of suspended solids. The MULTITRAPP-6P "POWDER FORM" is best suitable for carbon block and cartridge manufacturing. This mixture can create wonders in the water treatment industry with **MULTI - oriented results.**



KATALYST LIGHT – P	TITANSORB - P	CATALYTIC CARBON-P
CRYSTOLITE - P	ORGANOSORB - P	CATALYTIC CARBON MG -P

Unleash the Power of Powder Adsorbers In

CARBON BLOCKS



CONVENTIONAL SYSTEM

VS



6 TIMES
SMALLER AREA

6 TIMES
LESS COST

6 TIMES
LESS MAINTENANCE

MULTI TRAPP-6P

Compared to the conventional water treatment cartridges that can treat maximum one or two kinds of contaminants, MULTITRAPP-6P offers you complete water treatment in a single cartridge. It save a ton load of money, space, resources and most importantly, it saves a lot of water by giving you the top efficiency.

Watch Water® combined six very well-known products in the market in 'POWDER FORM' into one revolutionary mixture which has versatile properties and higher absorption capacity when compared to others.



Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Drum	60 kg	18	1163 kg
Bulk Bag	1000 kg	1	1025 kg

** Other packaging can be considered on request*

CLEAN SKIN BATH

Skin Calming bath for Eczema Patients

Magnesium is an essential nutrient for more than 300 bicellular processes in the body. Magnesium helps to reduce inflammation, which is a key symptom of Eczema and psoriasis. It can also help to decre--ase skin stress and anxiety. It also helps to prevent future flare-ups and inflammation. future flare-ups and inflammation.



Get your Sample box *for free*

MAGNESIUM BATH FOR ECZEMA

If your skin looks old, dirty and you have eczema *Watch Water® CLEAN SKIN BATH helps you to get rid of Atopic Dermatitis.*

The CLEAN-SKIN BATH contains magnesium in Component A and oxygen and sulfur in Component B. CLEAN-SKIN BATH is manufactured for tackling skin issues and eczema in one of those issues. Releases magnesium, which is an essential mineral with highest Anti-Inflammatory properties. Component B is a hydrated salt that can absorb moisture quickly and change the magnesium salt into hygroscopic. CLEAN-SKIN BATH will make you feel young again. No more sleepless nights with scratching because CLEAN-SKIN BATH is going to end your itching desperation and giving you smooth and flaw-less skin.

FEATURES

- Pure form of selected salts without fragrance or soap.
- Helps to reduce bacterial dirt and germs on the skin.
- Helps in preventing Eczema flares.
- Slows down aging with regular use.
- Also recommended recurrent skin infections.



CLEAN-SKIN BATH DOSAGE

For Adult	For Kids - Up to 10 Year's
Component A (160 grams) + Component B (40 grams) Component A (10 spoons) + Component B (2 spoons)	Component A (80 grams) + Component B (20 grams) Component A (5 spoons) + Component B (1 spoons)

Note : *Add this components in about 150 Liters of lukewarm water, which is about a bathtub full of water. Mix it well and soak yourself in the Cleansing Water for about 15 to 20 minutes.*



Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Box (5 x 4 kg Bags)	20 kg	48	1080 kg

★ *Other packaging can be considered on request*

INSTANT i-SOFT

INSTANT DOSING TECHNOLOGY

Comprehensive Range of Powdered Dosing Chemicals



Watch Water® INSTANT dosing chemicals are manufactured in our plant in **Mannheim, Germany**. Different forms of INSTANT I-SOFT are proven to be the most environmental friendly and safe products available in Water Treatment industry.

In addition to the I-SOFT (complex), we also offer **corrosion inhibitors, Biocides, Oxygen Scavengers, Cleaning agents, Descalers and strong Oxidizers** – all of which are biodegradable!

Watch Water® does not supply Phosphates, EDTA, NTA, Phosphonates or Complexing agents which are harmful for the environment.

APPLICATIONS

Drinking Water | Process Water | Heating Equipments | Heat Exchangers | Cooling Towers

Steam Boilers | Boilers | Membrane Systems | Antiscalants

FEATURES

- Correct Dosing/ Continuous Operation
- Controlled Concentration of Products
- 100% Recyclable Packaging
- Low Toxicity Technology
- Cost Effectiveness
- Lower Co_2 Emissions
- Personnel Safety
- Ease Of Disposal
- Convenience
- No Service Cost
- Less Maintenance
- Instant Dilution

POWDERED CHEMICALS

2 X 20 kg of INSTANT I-SOFT make 800 Liters of dosing Chemical

CONVENTIONAL CHEMICALS



- Takes Up More Space
- High Transport & Moving Costs
- Dangerous While Handling

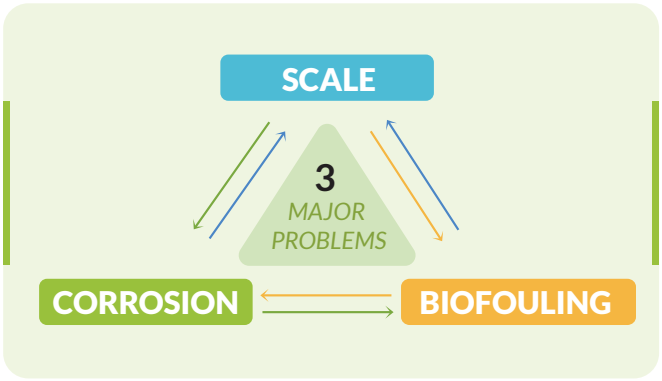
INSTANT CHEMICALS



- Less Space & Easy Storage
- Cost Reduction & Low Transport
- Biodegradable Chemicals

GREEN CHEMISTRY | NON TOXIC | Certified Products | 100% ECOLOGICAL

PREMIUM QUALITY
MADE IN GERMANY



MAJOR CHALLENGES

Scaling, Corrosion and Biofouling are three primary problems interlinked to each other. Scaling is the deposition of minerals on surfaces, whereas corrosion causes the degradation of metal parts when corrosive water reacts with it, resulting in structural damage. Scaling lays the groundwork for the growth of biofilms, and corrosion quickens the deterioration of metal surfaces inhabited by biofouling.

THE BEST SOLUTION FOR

SCALING, CORROSION & BIOFOULING



GENERAL USE

- INSTANT i-SOFT — Scale & Corrosion inhibitor for drinking water, food and beverages industry
- INSTANT i-SOFT-DW — Scale & Corrosion inhibitor for all pipes and equipment

COOLING TOWERS

- INSTANT i-SOFT-OB — Multi-functional Scale and Corrosion inhibitor with dispersant non-hazard-ous **Oxidizing Biocide**
- INSTANT i-SOFT-NB — Multi-functional Scale and Corrosion inhibitor with dispersant **Non-Oxidizing Biocide**

BOILERS

- INSTANT i-SOFT-ON — Scale & Corrosion inhibitor **Non-Volatile Oxygen Scavenger** for Hot Water Boiler
- INSTANT i-SOFT-OV — Scale & Corrosion inhibitorVolatile **Oxygen Scavenger** for Steam Boiler

MEMBRANE PROTECTION

- INSTANT i-SOFT-RO — Scale and Corrosion inhibitor with dispersant Applications in Membrane Pre-Treatment
- INSTANT i-SOFT-ROB — Scale and Corrosion inhibitor with dispersant Oxidizing biocide to stop bio-fouling

THE INSTANT I-SOFT® RANGE OF CHEMICALS IS EXCELLENT FOR


Cooling Towers


Heat Exchangers


Boilers


Reverse Osmosis



Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Box (4 x 6 kg Buckets)	24 kg	48	1250 kg
Drum	60 kg	18	1163 kg

NSF/ANSI/CAN 60

⋆ Other packaging can be considered on request

OXYDES

Multipurpose Oxidiser for Disinfection and Sanitization



INSTANT OXYDES® is an absolute white food grade Oxidizer in odorless, crystalline powder form, which when added to water dissolves easily and releases hydrogen peroxide. This hydrogen peroxide is stabilized and work as very **strong and powerful disinfectant**. It has very wide range of applications and uses. Since it is approved for any food applications, it can be used in drinking water applications, Resin and Membrane cleaning applications and as a disinfectant for all surfaces, barrels, pressure vessels, lines, pipes, tanks and for the complete range of Food and Beverage equipments. It is the best Oxidizer and Disinfectant for cooling towers and swimming pools.

INSTANT OXYDES® oxygen, water and carbonates and the decomposition happens without the formation of any residues or toxic contaminants unlike chlorine, chlorine dioxide and potassium permanganate.

SUBSITUTE TO

- Chlorine
- Ozone (O_3)
- Chlorine dioxide (ClO_2)
- Liquid Hydrogen Peroxide
- Strong Oxidants

ULTIMATE CLEANING AGENT FOR ALMOST ANY KIND OF SURFACE

- *Disinfection Of Ion Exchange Resins*
- *All Kinds Of Water Purification*
- *Food Industry- Disinfection & Sterilization*
- *Sanitization Of Membrane Systems*
- *Residential And Industrial Dishwashers*



TECHNICAL SPECIFICATIONS

Appearance	White Granular Powder
Bulk density	0.8 - 1.05 g/cm^3
Active Oxygen	17%
Moister Content	20% (Max.)
pH Value (3% solution)	10.2 (approx.)
Storage Temperature °C	-27 °C to +42 °C



Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Box (4 x 6 kg Buckets)	24 kg	48	1250 kg
Drum	60 kg	18	1163 kg

NSF/ANSI/CAN 60

★ *Other packaging can be considered on request*

OXYDES-P

Powerful Oxidizer for Microbiological Oxidation



OXYDES®-P is a Powerful Oxidizer derived from normal salt and water (NaCl + H_2O). It reacts with added sodium chloride (NaCl) salts to create chlorine, a very strong Sanitizer that removes any additional contaminants found in water.

This process mentioned as **"Powerful Oxidation",** can be used to disinfect water and wastewater in any industry. The biggest benefit of OXYDES®-P is that it disinfects organics and inorganics completely with very high levels of Oxygen without leaving behind any kind of chloramines or other disinfection by-products (DBPs) that can cause and strong smell. Also, OXYDES®-P can be used for the regeneration of CATALYTIC CARBON the only **regenerable carbon** in the market.

APPLICATION & FEATURES

- Colour, Taste, Odor Reduction
- Control of Microorganisms
- Regeneration of Catalytic Carbon
- Cooling Tower Shock Treatment
- Disinfection
- Pools and Spa
- Ammonia Removal

OXYDES®-P offers a range of benefits in water treatment, including its effectiveness as an **oxidizing agent, disinfectant**, and its versatility in various applications. It serves as an environmentally friendly and efficient alternative to traditional water treatment chemicals, making it a valuable tool in maintaining water quality and safety.





Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Box (4 x 6 kg Buckets)	24 kg	48	1250 kg
Drum	60 kg	18	1163 kg

⋆ *Other packaging can be considered on request*

INSTANT BIOXIDES

Bactericide, Fungicide, Algaecide- Instant Powdered Chemical

Watch Water® BIOXIDE™ is a very high-class bactericide, fungicide and Algaecide that kills the growth of microorganisms without any harms to the environment and is considered as a **GREEN BIOXIDE**. **INSTANT BIOXIDE™** is an instant granular non-dusting white biocide compound. It is free flowing and very easy to handle. All the inert ingredients used in **INSTANT BIOXIDE™** have status as drinking water treatment disinfection and food processing chemical. It dissolves into water rapidly to release high oxidation energy and oxidize every bacteria, viruses, fungus, algae and slime instantly. **INSTANT BIOXIDE™** cleans all surfaces and removes **Scale, Corrosion, and Biofouling** without any chemicals.

FEATURES

- No Corrosion
- Cost-Effective & Safe
- No Toxic DBP's
- Simple & Fast
- Halogen-Free Disinfection
- Oxidizes



INSTANT BIOXIDE™ has been used for years in Water treatment to control scale, corrosion, biofouling and slime removal. It improves the quality of water and degrades all organic matter. It also reduces Ammonia, Nitrogen, Hydrogen sulfide, chloramines and THMs in water. The disinfection activity is based on active oxygen.

BIODEGRADABLE ★ 100% COMPOSTABLE ★

APPLICATIONS

- Paper Industry Biocide
- Disinfection of fruits and vegetables
- Fishing industry
- Oil and Gas industry
- Food industry
- Wastewater disinfection
- Livestock industry
- Hospitals and Hotels
- Reverse Osmosis

INSTANT DEFENSE AGAINST MICRO-ORGANISMS

Algae | Viruses | Bacteria | Fungi



Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Box (4 x 6 kg Buckets)	24 kg	48	1250 kg
Drum	60 kg	18	1163 kg

★ *Other packaging can be considered on request*

ROSOFT

Antiscalant for Reverse Osmosis Membranes

Watch Water® ROSOFT® is a replacement of water softeners as a pretreatment for reverse osmosis. With **ROSOFT®**, there is no requirement for regeneration processes using salt and generates a fast return on investment. Compared to phosphonate based antiscalants, **ROSOFT®** will not lead to any eutrophication. **ROSOFT®** provides a broad-spectrum protection from small to large flow applications. **ROSOFT®** has the ability to inhibit and disperse scale forming compounds such as: Calcium Sulphate, Calcium Phosphate, Metal Oxides, Barium and Strontium Sulphate.

APPLICATIONS

Waste Water | Seawater | Surface Water | Brackish Water

ROSOFT® is a multifunctional antiscalant for RO membranes allowing operations at high recovery rates from various feed water sources.

SCALE

3 *MAJOR PROBLEMS*

CORROSION ⇄ **BIOFOULING**

ROSOFT® blended for Multifunctional antiscalant to protect membranes from Scale, Corrosion and Biofouling.

KEY BENEFITS

- Higher Efficiency and Effectiveness than phosphate blended antiscalants.
- Does not lead to eutrophication.
- **ROSOFT®** keeps the scaling and fouling forming ion's (Cation's & Anion's) soluble in the super saturated concentrate up to 2-3 pass through reverse osmosis.
- Minimal transportation weight and low transportational and operational cost.
- Accurate dosing with simple adjustment.







Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Box (4 x 6 kg Buckets)	24 kg	48	1250 kg
Drum	40 kg	18	800 kg

★ *Other packaging can be considered on request*

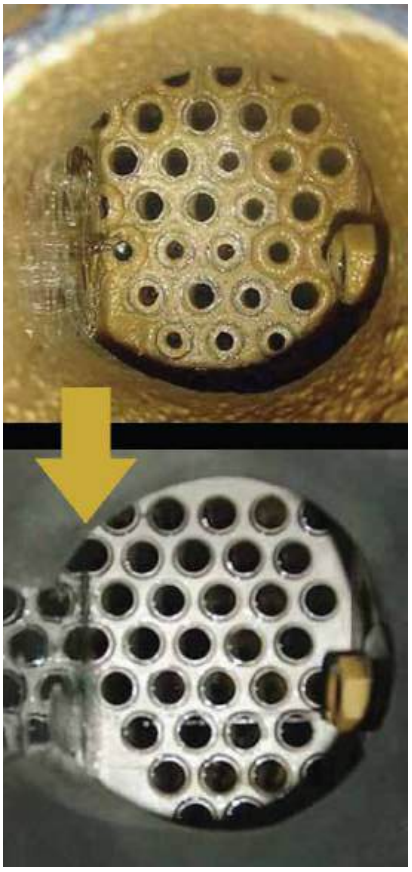
GREEN ACID

LIQUID CONCENTRATE

Catalyzed Acid- The Fastest De-Scaling Solution

GREEN ACID is a very strong acid containing **Scale Inhibitors, Corrosion Inhibitors** along with **trace colour indicator** to take maximum efficiency from its strength. It is not corrosive and compared to other traditional acids in the market, much safer to handle.

Traditional dirty strong mineral acids like Hydrochloric acid (HCl), Sulfuric acid (H_2SO_4) or Phosphorus acids have destroyed the world environment. GREEN ACID can remove severe calcite scale, gypsum, calcium phosphate and calcium oxalate scales just in a few minutes. GREEN ACID can de-rust any equipment made of any kind of metal, because it contains the best **biodegradable corrosion inhibitor.**



FEATURES

- Low Toxicological Risk
- Does Not Contribute to Eutrophication
- 100% Biodegradable Formulation
- Odor Free
- No Gas Phase Corrosion
- Chemically Stable

APPLICATIONS

- Membranes
- Pipelines
- Heating Systems
- Cooling Towers
- All Beverage Equipments
- Chillers & pumps

Note :
Green Acid does not contain any phosphates or phosphonates- these environment polluting chemicals do not exist in Watch-Water Chemistry.



DESCALING- DERUSTING-BIOCLEANING

WITH ENVIRONMENTAL RESPONSIBILITY



Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
IBC Container (1000 L)	1140	1	1160

** Other packaging can be considered on request*

INSTANT i-SOFT DESCALER

INSTANT DOSING TECHNOLOGY

Heavy Duty Instant Descaler



I-SOFT DESCALER is a Green Technology that can perform very effective cleaning and has the ability to remove **hard scales.** It contains a special compatible inhibitor that prevents damaging the base metal while allowing the cleaning process to continue effectively and clean all hard scale.

The deposits that occur in water systems are mostly inorganic mineral salts and corrosion products. Deposit composition ranges from very dense crystallite structures to very porous & loosely bound material to gelatinous slimes. The deposits which require hard cleaning are silicates, sulphates, phosphates. Scale built up will impact the efficiency and effectiveness of any water treatment system and safety of operational personnel through equipment damages. **I-SOFT DESCALER** is a direct replacement of HCL and H_2SO_4 cleaning process.

APPLICATIONS

- Cooling Tower
- Pipe Lines
- Commercial Buildings
- Pressure Boilers
- Heat Exchangers
- Residential System

FEATURES

- Free flowing Instant Powder.
- Does not require special test apparatus.
- Contains the best corrosion inhibitor I-SOFT.
- Contains a wetting agent.
- Easy to ship, handle, mix and use.
- Reduces cleaning time, very cost effective.

EASY DETERMINATION OF SOLUTION STRENGTH

I-SOFT DESCALER also contains a colour indicator which can constantly detect the efficiency DESCALER and save time

Highly Efficient ---------- ▶ **Saturated**





Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Box (4 x 6 kg Buckets)	24 kg	48	1250 kg
Drum	60 kg	18	1163 kg

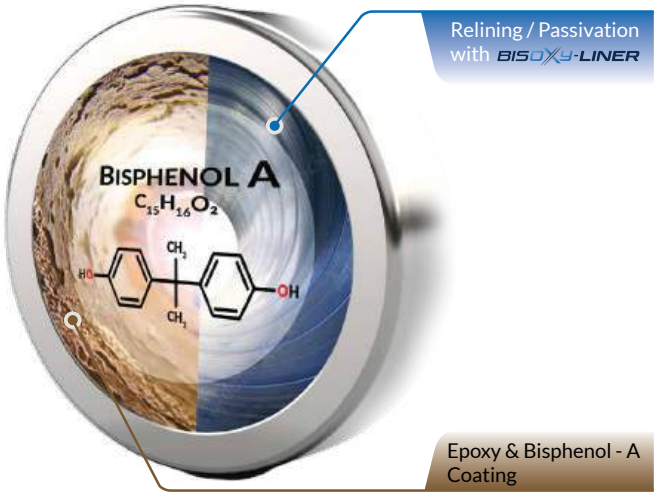
★ *Other packaging can be considered on request*

BISOXY-LINER

Bisphenol - Oxidation & Passivation

Bisphenol-A (BPA) is a hazardous chemical that poses a significant risk when present in drinking water. Existing pipes, particularly those coated with **BPA**, contribute to the leaching of this harmful substance into our water supply.

BISPHENOL A (BPA) → ENDOCRINE DISTRUPTION → CANCER



BPA leaching from drinking water pipes (Hot & Cold) gives reason for huge concern and reason to solve this issue. There is an immediate need to stop this leaching into drinking water pipes. **BPA** is linked to various health issues, including cancer and endocrine disruption even at very low doses, it is linked to bad health and big environmental problems. Long-term exposure to **BPA** can have adverse effects on both human health and the environment.

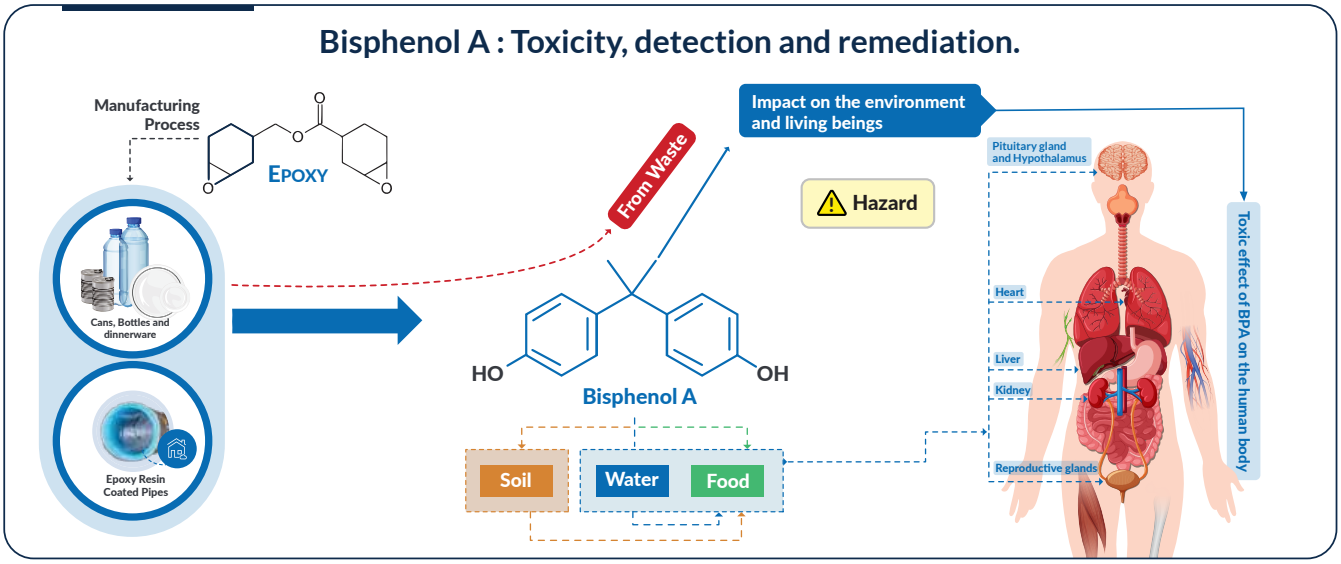
OUR SOLUTIONS

Oxidation and Relining of BISPHENOL-A (BPA) coated hot and cold-water pipes instead of replacing them.

BISOXY-Liner, our cutting-edge solution crafted in Germany to address **BPA** contamination in pipes provides a sustainable and effective alternative to traditional methods.

Relining / Passivation with BisOxy-Liner Our product eliminates the need for pipe replacement by employing a sophisticated process of **BPA** oxidation and passivation. This innovative approach ensures the reclamation of **BPA**-coated pipes, offering a cost-effective and environmentally friendly solution. Forged with precision in German precision, **BISOXY** provides an unparalleled advantage in terms of efficacy and environmental responsibility. The cornerstone of **BISOXY** 's prowess lies in its ability to mitigate **BPA** contamination without necessitating the wholesale replacement of pipes.

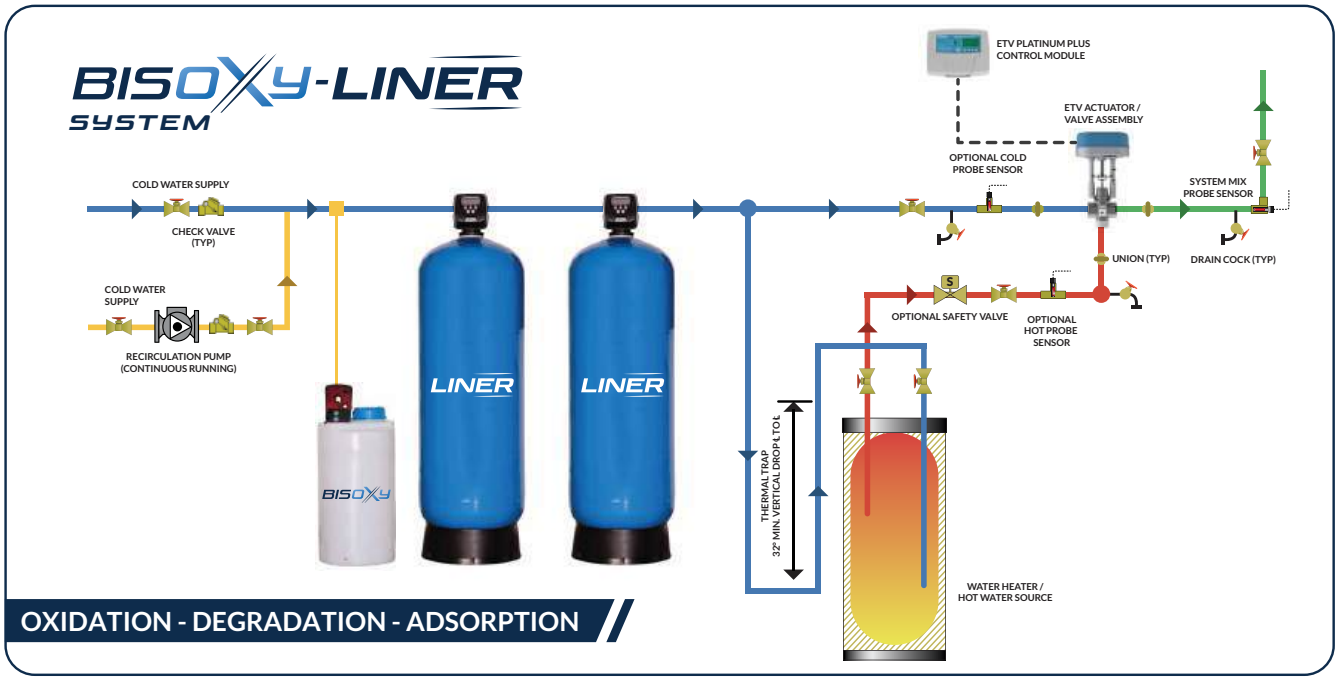
Oxidation (Chemistry) is a reaction in which the atoms of an element lose electrons (e-) and the oxidation state of the element increases while **Peroxidation** (Chemistry) is an oxidation reaction especially of an **OXIDE** that produces a **PEROXIDE**. The main difference between **Oxidation** and Peroxidation is that Oxidation is the combination of **BISOXY** with oxygen while **Peroxidation** is an oxidation reaction especially **MgO**, that produces **PEROXIDE** to destroy **Bisphenols (BPA)** in cold and hot water pipes.



Magnesium Oxide is usually classified as a basic support for life. Chemically, an interesting feature related to **MgO** is that it an irreducible Oxide with a very electropositive Cation (Mg_2+) and the Oxygen Vacancies when formed are indeed anion vacancies with trapped electrons. MgO is an Oxide with a rock-salt structure, which means that on the surface each Mg_2+ is surrounded by five O_2- ions. Magnesium Oxide Liner is the best Coating of Metals like, anhydrous surface of metal oxides.

CATALYTIC SURFACE

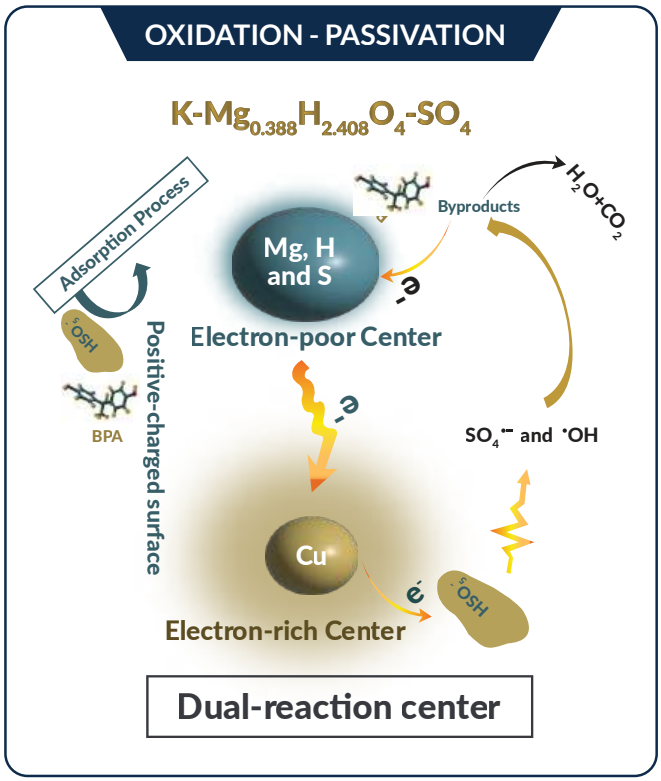
The Catalytic Liner of MgO is stable in the temperature range of 90° to 110°. MgO is used as a Catalyst for the dehydrogenation of **BISPHENOL-A. MgO** has a degree of hydration and Hydroxylation. **BISOXY** is a finely tuned chemical reaction where atoms within the **BPA** coating lose electrons, resulting in an increase in the oxidation state of the element. Huge amount of Hydroxy Radicals available on the surface of MgO allows degradation of **BISPHENOL-A. BISOXY** is the Best Technology available in the market to destroy all kind of Organics and **BISPHENOL-A**.



VERY ADVANCED OXIDATION PROCESS (AOP'S)

BISOXY can eliminate very toxic and persistent organic pollutants including **BISPHENOL-A. BISOXY** generate very potent **Reactive Oxygen Species (ROS)**, such as hydroxyl radicals (OH°) from powder hydrogen peroxide and sulfate radicals (SO4°) from **BISOXY** activation.

Degradation rate of BISPHENOL-A can reach 99.9% in 0.3 minutes using MgO + BISOXY system. BISOXY based on Sulfate Radicals (SO4°) is one of the most effective removal method for Organic BISPHENOL-A pollutant. Alkaline Metal Oxides such as MgO can build the alkaline sites (Liner/Layer) on the surface of Pipes and form surface bound hydroxides-MgOH. MgOH catalytic activated surfaces are favoured because of its advantages like addition of magnesium in drinking water which is full of energy. magnesium oxide is one of the most important Metal Oxides as a Catalysis.



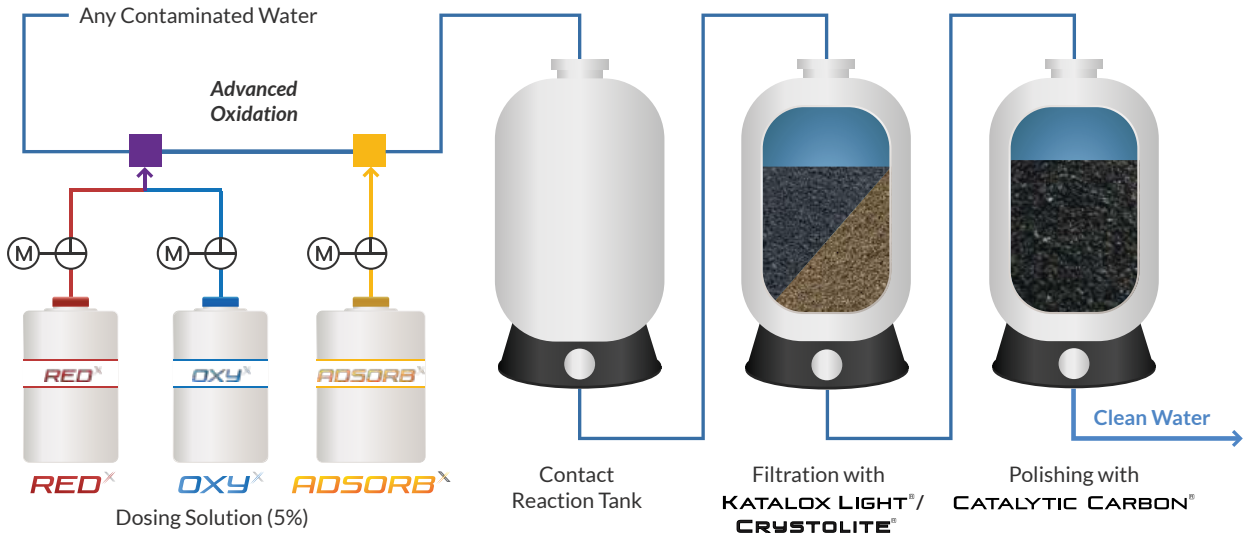
REDOXY TREATMENT

Oxidation-Adsorption-Filtration

REDOXY Treatment Technology combines salts of **RED^X**, **OXY^X**, and **ADSORB^X** to generate cost-effective Advance Oxidation Process (AOP), High Purity Ferrate, Radical Chemistry and Fenton reactions. This eliminates the need for hazardous and toxic oxidants like chlorine or ozone, while reducing footprint and making it safer for workers and the environment. The proprietary technology from **RED^X**, **OXY^X**, and **ADSORB^X** combined with final filtration and polishing have shown the best results for the removal of COD, BOD, Hydrocarbons, Heavy Metals, and various industrial wastewater contaminants.

ADVANCED OXIDATION PROCESS

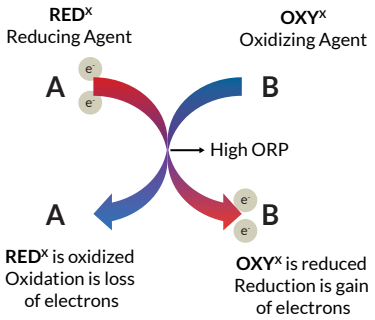
OXIDATION - ADSORPTION - FILTRATION



REDOXY CHEMISTRY

RADICAL CHEMISTRY

REDOXY technology, produces the most stable form of Ferrate (VI) using just two Components, i.e., Ferric hexahydrate Granules (**RED^X**) and a strong acid halogen (**OXY^X**). Apart of Ferrate, a lot of Hydroxyl ($OH^{\cdot}$) and Sulphate ($S^{\cdot}$) radicals are also generated, the combined **REDOX** potential of which has no match in the industry.



OXIDATION-REDUCTION

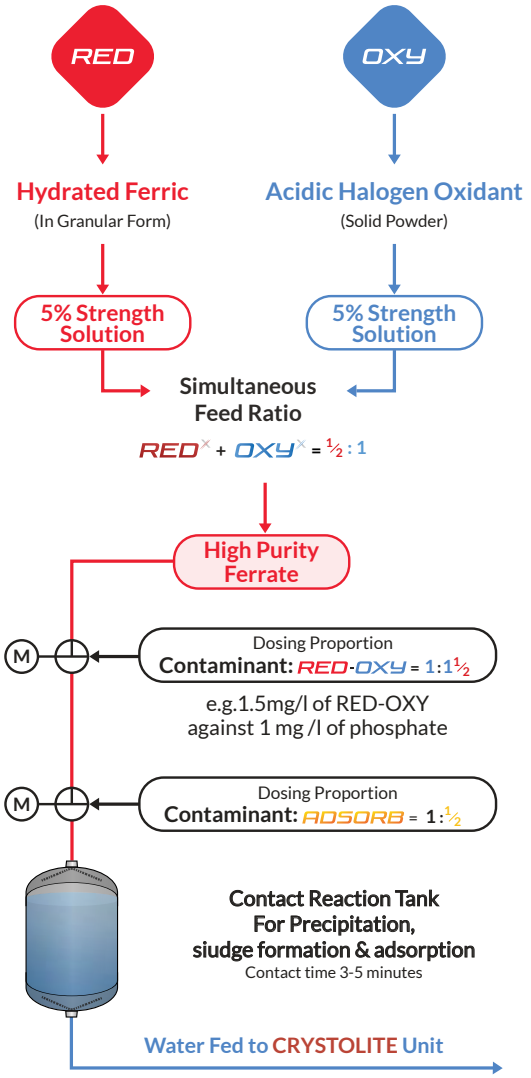
RED^X acts as a reducing agent and **OXY^X** acts as Oxidizing agent which leads to the transformation of ferrate ions into dissolvable metal hydroxide particles. These particles are adsorbed by **ADSORB^X** and can be easily removed by filtration.

Revolutionizing WATER RE-USE
with Radical Chemistry



REDOX POTENTIAL

Ferrate (VI)	→ 2.2 V
Hydroxyl Radicals – $OH^{\cdot}$	→ 2.7 V
Sulphate Radicals – $S^{\cdot}$	→ 3.1 V



PLEASE NOTE: The values mentioned here are just for approximation. The exact dosing amount should be estimated beforehand by the customer using our Lab Test-kit.

DOSING

The dosing amount in each step is approximated by the total concentration of contaminants to be treated. For example, if the total cations (Iron, Lead, Copper, etc) and anions (Arsenic Phosphate, silicate, etc.)in waste water are 'x' mg/L, then the dosing for RED^X, OXY^X an ADSORB^X should be 'x/2', 'x' and 'x/2' ml/L respectively. All three chemicals should be dosed as a liquid with 5% strength.



TEST, ADJUST, ADAPT
REDOXY LAB KIT

Available to purchase for TRIAL TESTING



APPLICATIONS

- Oil & Gas Industry Mining & Fracking
- Irrigation / Drinking Water
- Chemicals & Pharmaceuticals
- Sewage / Surface Water
- Industrial Wastewater
- Landfill Leachate Paper & Pulp





Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Box (4 x 6 kg Buckets)	24 kg	48	1250 kg
Drum	60 kg	18	1163 kg

NSF/ANSI/CAN 60

★ *Other packaging can be considered on request*

REDOXY-3C

Granular Dosing Technology For Water Body Purification

REDOXY-3C is a granular dosing technology for surface water purification and mediation through natural biological processes for immediate results with very little initial investment. **REDOXY-3C** has proved to be cost-prohibitive and very effective at contaminated sites without the need for injection or mixing.

REDOXY-3C can work in wide range of pH and can be used for odour removal, Turbidity, Coagulation, Colour removal, nutrients removal, Hydrogen Sulphide removal, Phosphate removal as well as heavy metals removal. It is the most advanced product for lakes, ponds, rivers and also for water reuse. It the most up-to date technology currently available for nutrient reduction. **REDOXY-3C** boasts a high oxidation potential, non-toxic byproducts, and exceptional adsorption properties, making it a versatile solution for efficiently removing various impurities, including heavy metals, arsenic, and more.

FEATURES

- No Chlorine
- No Flocculent/Alum
- No Acids
- No DBPs
- No Ozone (O_3)

TECHNICAL SPECIFICATIONS

Appearance	White/ Grayish Granules
RED^{3X} Concentration	40%
Oxy^{3X} Concentration	20%
Adsorb^{3X} Concentration	40%
Bulk Density	1.2 kg/ liter
Particle size	3-5mm
Dosage	30 gram/m^3

WORKING PRINCIPLE

The core technology of **REDOXY-3C** is a proprietary catalyst material, an assembly of three different components that purify water without being degraded. The proprietary **RED^{3X}**, **OXY^{3X}**, **ADSORB^{3X}** and all certified to **NSF/ANSI/CAN 60** for drinking water applications and are not harmful for aquatics life when applied in water body purifications. Avoid harsh chemicals like Copper Sulfate which has high potential to causes harm to aquatic environment.





Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Box (4 x 6 kg Buckets)	24 kg	48	1250 kg
Drum	60 kg	18	1163 kg

NSF/ANSI/CAN 60

*Other packaging can be considered on request

REDOXY-4C

Biological Treatment Facility

REDOXY-4C, a combination of **RED^{XXX}** and **OXY-3C**, is intended for any wastewater treatment providing rapid and complete degradation of the majority of organic and inorganic pollutants including Fats, Oil and Grease (FOG). **REDOXY-4C** under aerobic conditions, can completely replace any biological treatment facility.

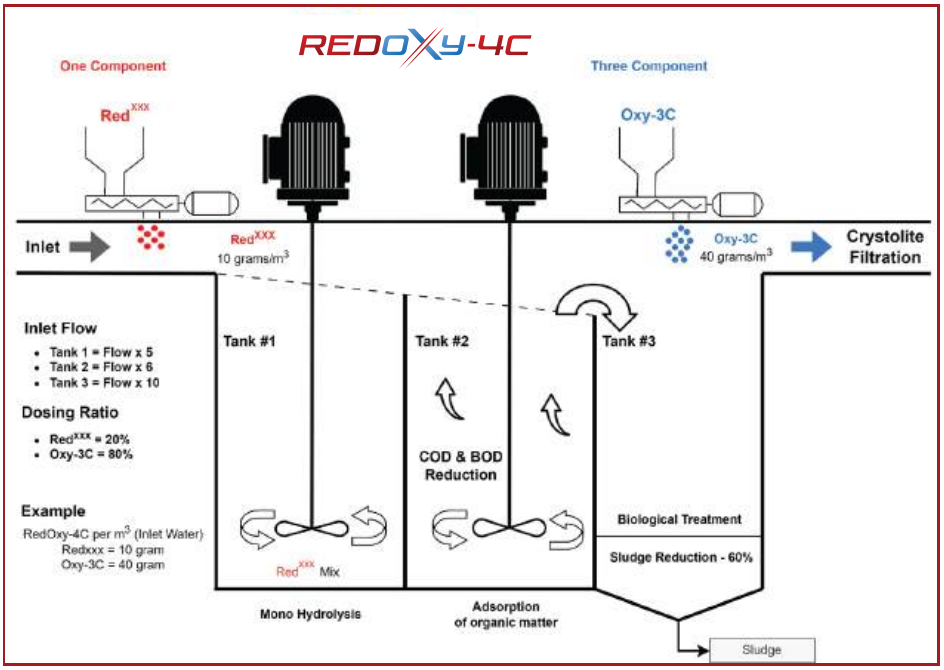
REDOXY-4C uses Very Advanced Oxidation Process (VAOP), making it possible to intensify the processes by many-folds. Using **REDOXY-4C** (Biological Treatment) will save the Refineries, Petrochemical Industries and any other Industries from building bulky secondary sludge basins for trapping activated sludge. This will reduce huge investment costs and the required area used will also reduce up to 5 times.

FEATURES AND BENEFITS

- Removal of BOD and COD
- Very fast
- Very Effective
- Very Economical
- Reduction of sludge
- Green Technology

MAJOR CONTAMINANTS REMOVED

- TDS
- BOD- COD
- Sulfides
- Phenols
- Chlorides
- Mercaptans
- Hydrogen Sulfide (H2S)
- Ammonia
- Free Oil
- Suspended Solids



REDOXY-4C
GRANULES FOR BIOREMEDIATION

WORKING PRINCIPLE

Bacteria and other microbes are the quickest solution to effectively clean up the ongoing difficulty of Microplastics, Pharmaceuticals waste, PFOA's, BPA and Hydrocarbon problems in all wastewater systems. These microbes require Oxygen and **OXY-3C** a steady oxygen supply to these bacteria and microbes. **RED^{XXX}** granular beads possess unique properties like strong oxidizing potential and simultaneous generation of Adsorption sites. This combination of **RED^{XXX}** and **OXY-3C** can break down contaminants like organics as well as Inorganics into tiny carbohydrates that can be easily consumable by bacteria. **REDOXY-4C** is the next generation of wastewater remediation.



Standard Packaging

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Box (4 x 6 kg Buckets)	24 kg	48	1250 kg
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FERRIC-SG

The Most Effective Coagulant and Flocculant



FERRIC-SG is a **controlled release granular** of Ferric Sulphate. Unlike powdered or liquid grades, which are very dangerous to handle, the controlled release granules are ideally suitable due to easy handling and widely suitable for any application from small to large water treatment facilities. The unique manufacturing process renders a **superior ferric sulphate** that is stable at concentration up to 22% Ferric Iron. Ferric SG is a 100% Aluminum and Copper free.

FERRIC-SG is very effective as a coagulant in Oily and detergent water clarification. **FERRIC-SG** is the best coagulant for the removal of colour, turbidity and suspended solids. Excellent for the **removal of Phosphorus, Chromium lead** especially **Arsenic** and **Selenium** and many **Heavy Metals**. **FERRIC-SG** is widely used for sludge dewatering, as well as resulting in sludge volume reduction up to 60% of its weight.

APPLICATIONS

- Sewage Purification
- Waste Water Treatment
- Drinking Water Treatment
- Industrial Water
- Water Reuse Application



TECHNICAL SPECIFICATIONS

Appearance	Yellow Greyish Granules	
Bulk density	1050 – 1290 Kg/m^3	
Total Iron Content	21 - 23 %	
Ferric Iron (Fe^{3}+)	19.5 – 22 %	
Ferrous Iron (Fe^{2}+)	≈ 1 %	
Sieve Analysis	< 4.0 mm < 1.5 mm < 0.2 mm	> 98 % 50% < 1 %
Freezing Point	-19˚ C / -2.2˚ F	

FEATURES AND BENEFITS

- Algae Control
- Arsenic Removal
- COD/BOD Reduction
- Phosphorus Removal
- Ammonia Removal
- Coagulation/Flocculation
- Waste Water Clarification
- Colour Reduction
- Disinfection by-product
- H_2S Removal
- Nutrient Removal
- Only Waste Separation
- Sludge Conditioning
- Suspended Solids Removal
- TOC-Total Organic Removal
- Heavy Metals Separation
- Water Clarification
- 100% Chloramine Reduction



Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
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IN-FLOW TECHNOLOGY

In Flow Sewerage Treatment

Just below your feet pipelines cross under, over or even through each other carrying our Drinking Water, Waste-water and Stormwater drainage from roads, our homes, businesses, curbsides, rooftops, and through sump pump connections. The average sewer collection system around the world is around 100 years old, and they are susceptible to corrode, break and collapse. All old pipes have capacity issues as population has increased dramatically. Over the past 40 years **Watch Water®** and municipalities have made significant progress in protection of lakes, drinking water pipes and public health by developing new and innovative technologies. **In-Flow technology®** is one such technology that helps in increasing the existing treatment capacity by 70% without any investment.

APPLICATIONS

- Roads and Streets Drainage
- Residential Wastewater Drainage
- Industrial Wastewater Drainage



FEATURES

- Treatment directly from source
- Low capital investment
- Instant results
- Quick Return On Invest (ROI)
- Automatic/Manual Dosing system

PURIFICATION & CONTROL OF WASTEWATER POLLUTANTS DIRECTLY TO THE SOURCE

POLLUTION SOURCES

Road

- Motor oil
- Paved areas
- Side walks
- Parking lots
- Vehicles (cars, trucks, tractors and etc.)

Residential Areas

- Wastewater from
- Kitchens
- Baths
- Toilets
- Washing machines
- Dishwashers
- Roofs & sinks

Industrial Manufacture Operations

- Industrial wastewater
- Chemicals
- Heavy metals
- Metals like copper
- Arsenic
- Chromium
- Mercury and etc.



Standard Packaging

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GREENOXY

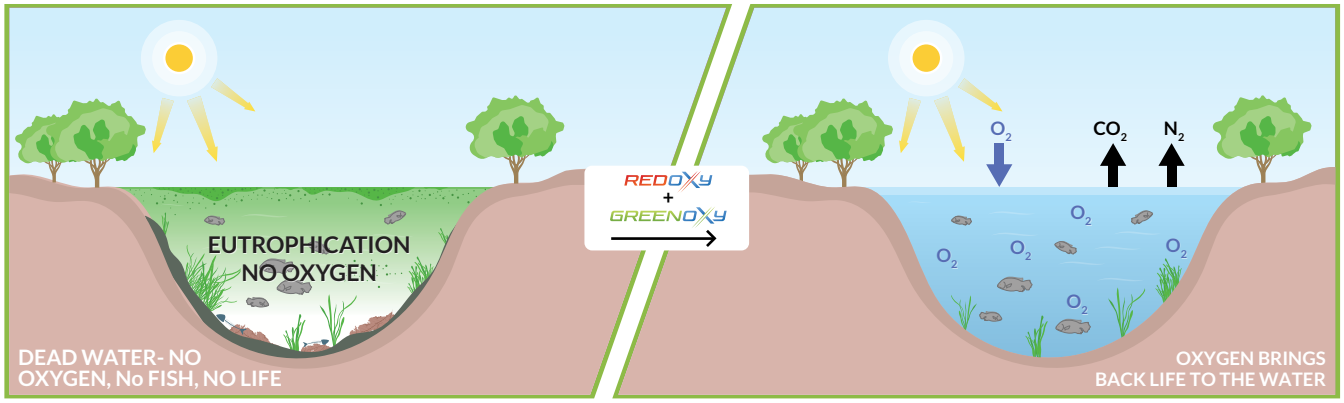
Oxygenated Water for Biological Treatment

GREENOXY, invented for continuous improvement of freshwater and wastewater applications, is a process that oxygenates an entire body of water from bottom to top. Due to very heavy load of pollution from nutrients overloading, large algae blooms start to overtake the cleaning process. Due to photosynthesis, dissolved oxygen levels start to decrease, making it hard to clean pollution and start the eutrophication process.

GREENOXY Oxygenate Water for Biological treatment and is a subsequent treatment of RedOxy-3C. GreenOxy granules settle at the bottom of the lake and slowly release oxygen which helps boost the aerobic process, and naturally consumes all nutrients and biologically treats all water body with granule dosing technology. Simplifying Capital Expenditure treatment with **REDOXY-3C** & GreenOxy.

FEATURES

- Odor Control
- Adsorption of Nutrients
- Adsorption of Phosphate
- Oxygenate water for biological treatment
- Steady continuous oxygenation



POLLUTED WATER → REDOXY + GREENOXY → TREATED WATER

TECHNICAL SPECIFICATIONS

Appearance	Dry, Free-Flowing granules
Colour	Off-White
Odour	Odorless
pH (1% Solution)	11.5-11.8
Solubility	Mildly Soluble

WHY IS GREEN OXY NEEDED?

REDOXY-3C can clean every lake, pond or wastewater as a unique product that it is. The Catalyst and Adsorber component in **REDOXY-3C** usually stays as it is. Constant use of Oxidizer from **REDOXY-3C** will reduce the productivity over time and so, the final step that needs to be applied is our Nutrient Adsorbers and Oxygen provider **GREENOXY**. **GREENOXY** process gets Oxygen to the sediment layer at the bottom to top.



Standard Packaging

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BLACKOXY

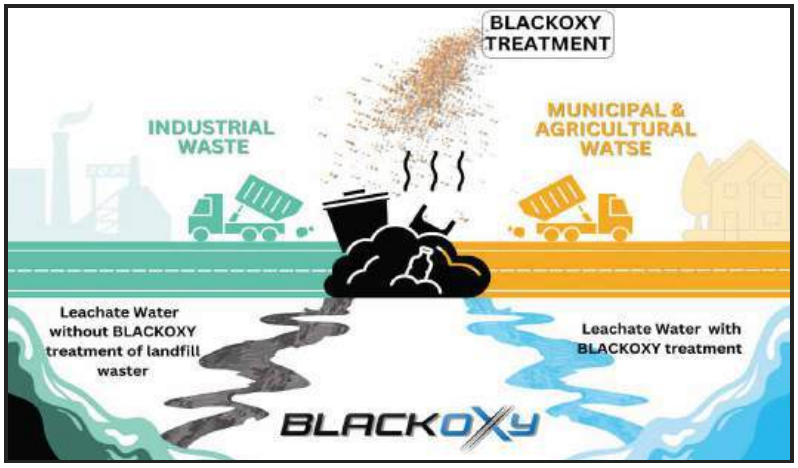
Complete Landfill Revitalisation

BLACKOXY is a two-stage treatment of **Landfill Leachate**. Every Landfill waste leads to the production of Leachate which usually has a very high BOD and COD together with high number of heavy metals, inorganics, and organic halides. Leachate also contains high amount of **Nitrogen, Phosphates, Ammonia** and **Hydrogen Sulphides**. All leachate waters need a treatment before/prior to discharge into surface waters. The most suitable treatment method varies with leachate composition and required discharge standards. **BLACKOXY** can be used as a complete treatment to meet the requirements of every landfill site in the world.

ZERO LIQUID
DISCHARGE TECHNOLOGY
FOR LEACHTE

FEATURES AND BENEFITS

- Reduces BOD & COD
- Reduces all Pollutants and contaminants
- Meets local water discharge legislations
- Treat all types of leachates
- Minimum space requirement
- Very simple and safe
- Lowest operating costs
- Treat Organics and Inorganics
- Treat industrial wastewater
- 100% Biological treatment



WHITEOXY

Pure Oxidiser for Leachate Treatment

WHITEOXY is Catalysed Oxidizer for Chemical Oxidation of organics, hydrocarbons including heavy duty wastewater. **WHITEOXY** reduces costs and handling by offering all environmental professionals a new, two-in-one reagent without a built-in-activator. Over time while using **REDOXY** or **BLACKOXY**, the oxidiser gets consumed while the activator (catalyst) remains. This is where **WHITEOXY** comes into play. Its performance is equivalent to the initial treatment with **REDOXY** or **BLACKOXY**. In the field, the material can be easily sprayed over the contaminated area using common **Granules Dozers** or spraying tools.



FEATURES AND BENEFITS

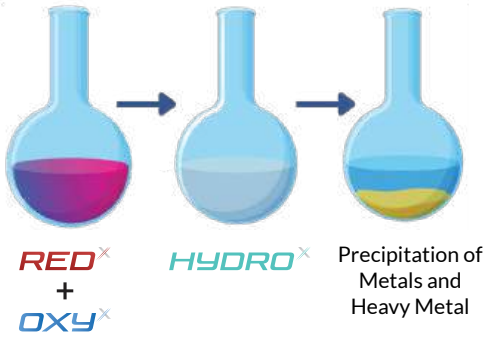
- High Performance
- Supply Oxygen for 365 days
- Wide Application Range
- Removes Organics & Hydrocarbons
- Non Hazardous

HYDROOXY TREATMENT

Catalytic Oxidation and Precipitation

HYDROOXY TREATMENT works on the principle of Catalytic Oxidation & Precipitation. It is a ground-breaking mix of three cutting-edge technologies: RED^X, OXY^X, and HYDRO^X.

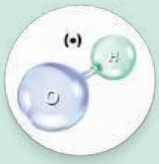
RED^X is basically ferric granules which act as catalyst in this process. OXY^X which is a strong acidic halogen oxidant, in combination of RED^X generates **Sulphate** radicals and the revolutionary **Ferrate (VI),** which can provide the ultimate treatment for any kind of wastewater.



What is HYDRO^X?

The core concept of **HYDRO^x** is precipitation. **HYDRO^x** forms insoluble precipitates of heavy metals in the form of Hydroxides. The hydroxyl radicals produced by **HYDRO^x** oxidize target pollutant molecules without the addition of any external catalyst.

RADICAL CHEMISTRY



HYDROXYL RADICALS

Hydroxyl radical is the most reactive agent in the water industry with a strong nonselective behavior and interacts quickly with a wide range of contaminants.



SULPHATE RADICALS

Advanced oxidation processes based on sulfate radicals have proven to be an efficient approach for removing refractory organic pollutants from wastewater.



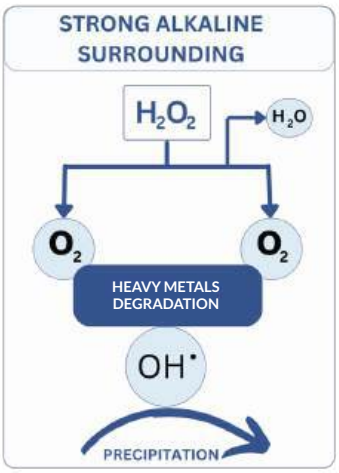
FERRATE (VI)

Ferrate(VI) has one of the highest REDOX potentials, capacity to oxidize both organic & inorganic pollutants and remove suspended/ colloidal particle materials.

THE PROCESS

The first stage involves, catalytic oxidation is done using RED^X and OXY^X which generate high REDOX potential.

In second stage HYDRO^X produces hydroxyl radicals. In STRONG ALKALINE SURROUNDINGS, hydroxyl radicals attach to the cations to generate precipitable hydroxides. When they react with organic molecules, highly reactive species such as H_2O_2 and super oxide (O_2•-) are created, which leads to chemical deterioration and even mineralization of these organic molecules. Last stage involves filtration of the generated precipitates and then finally polishing of the water with Catalytic Carbon.





Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Box (4 x 6 kg Buckets)	24 kg	48	1250 kg
Drum	60 kg	18	1163 kg

★ *Other packaging can be considered on request*

DEODOROXY

Removal of Odour and Toxic Air Pollutants

Air is often times polluted by municipal garbage, smoke, etc which creates toxic and harmful gases. Due to this garbage pollution, harmful bacteria and viruses are spread in the surroundings, as well as obnoxious odours which will also end up as air pollution. Garbage air emissions include Methane (CH_4), Carbon Monoxide (CO), Carbon Dioxide (CO_2), Nitrogen Oxides (NO_x) and Sulphur Oxides (SO_x).

DEODOROXY (Atmospheric Deodorant) solves this **odour problems** in various applications with self-cleaning ability. **DEODOROXY** destroys all possible **odours** from residential, commercial, industrial waste, and garbage as well as sanitize, clean, and reduce contaminants that are damaging the health of humans, animals, and plants. **DEODOROXY** reacts with organic molecules, transforms into hydroxyl radicals, and creates sufficient energy to break down hydrocarbons.

GARBAGE - THE PRIMARY CAUSE OF MAJOR WORLD PROBLEMS



Ozone Depletion | Waste Disposal | Air Pollution | Global Warning | Water Pollution | Acid Rains

EFFICIENT MANAGEMENT OF RECYCLING & GARBAGE TREATMENT

APPLICATIONS

- Private Homes
- Smart Cities
- Disinfection of Any Waste
- Waste Collectors
- Dumpster
- Commercial Application

TECHNICAL SPECIFICATIONS

Physical State	Solid mixture
Appearance	White powder granules
Odor	Odourless
Flash Point	Not flammable
Bulk Density	ca. 1250 – 1350 kg/m^3
Solubility	ca. 220 g/l (20 °C)- Soluble
pH	8.5 (in 2% solution)





Standard Packaging

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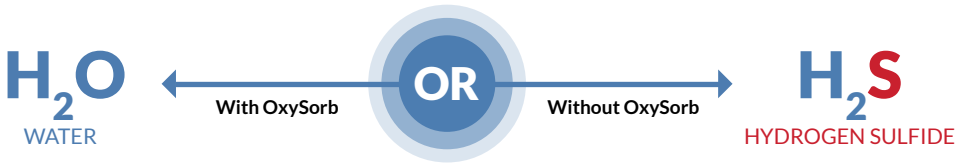
★ *Other packaging can be considered on request*

OXYSORB

The Green Revolution for Water Bodies

OXY (Oxygen Release) and **SORB** (Adsorber) is a proprietary formulation of Watch-Water Germany which produces a controlled release of Active Oxygen for periods of up to 1 whole year with a single application. **OXYSORB™** is a non-hazardous, food grade adsorber to bind and scavenge Phosphate, Nitrates, Hydrogen sulphide as well as Toxic organic compounds (TOCs). **OXYSORB™** adsorbs & sinks up to 99% of phosphorus and nitrogen in the bottom section of the water body where it becomes food for bacteria.





APPLICATIONS

- Oceans, Seas, Lakes
- Ponds, Wetlands
- Rivers, Streams, Canals
- Harbor, Lagoons
- Reservoirs, Basin, Aquifers

WHY OXYSORB?

Eutrophication and algae blooms in the agriculture, tourism landscape, drinking water have a serious impact on the world. These outbreaks produce toxins, which can also destroy the aquatic food chain (fish, shrimps and so on), thus directly or indirectly threatening human health. **OXYSORB™** is the most efficient, simple, environment friendly and low-cost method to adsorb nitrogen and phosphorus, thus stopping algae blooms and all the other problems in water bodies.

FEATURES

- Improves water quality
- Reduces volatile organic compounds
- Reduces nutrients like nitrogen and phosphorus
- Reduces organic muck and harmful gases (like H_2S)
- Removes odour
- Kills coliform bacteria
- Stops algae growth
- Reduces Geosmins, Trihalomethanes and Chloramines





Standard Packaging

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NSF/ANSI/CAN 60

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OXYONE

Oxidation, Purification And Disinfection

OXYONE® can solve against persistent pollutants. **OXYONE®** is a game-changing water and **wastewater treatment technology** for enhanced degradation of a wide variety of highly persistent and **toxic organic pollutants**. Our **Three compounds** are integrated with **Three novel** catalysts and provide decentralized treatments for industrial, commercial, municipal effluents and remediation projects for the treatment of contaminated water.

APPLICATIONS

Surface Water | Ground Water | Waste Water | Lagoon Water

COMPOUNDS OXIDIZED

- Algae
- Cyanobacteria
- Ammonia and amine compounds
- Aldehydes, including formaldehyde
- Arsenic
- Bad Bacteria and Viruses
- Biological Oxygen Demand (BOD)
- Chemical Oxygen Demand (COD)
- Total Organic Carbon
- Color, taste, and Odour
- Cyanides and thiocyanates
- Dyes and Pigments
- Food waste or By-products
- Hydrogen sulfide and organic sulfides
- Micropollutants
- Microorganism
- Nitrates Oxidation
- Nitrite oxidizing bacteria (NOB)
- Organic Amines
- Organic Sulphides
- Persistent Organic Pollutants (POPs)
- Pharmaceuticals
- Phenolic Pollutants
- Quinolines
- Synthetic Fragrances







OXYONE® generates Three Radicals. One product and hundreds of benefits

- Carbonate Radicals
- Hydroxyls Radicals
- Sulfate Radicals

Oxidant	Oxidation Potential
Carbonate Radical [$CO_3^{\bullet 2-}$]	3.2 V
Hydroxyl Radical [$OH^{\bullet}$]	2.7 V
Sulfate Radical [$S^{\bullet}$]	3.1 V
Total	**9.0 V**



Standard Packaging

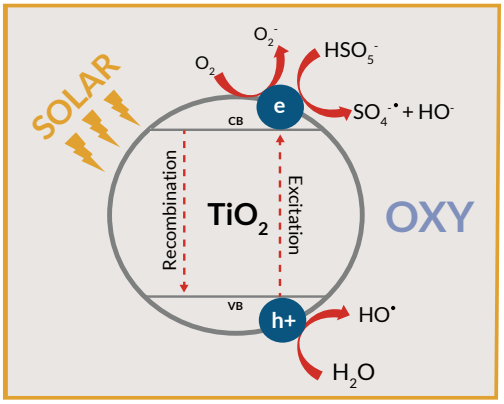
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SOLAROXY-3C

Solar Disinfection through Photocatalytic Degradation

Watch Water® has created a proprietary innovation Solar Engine for molecular chemistry. Watch-TiO_2 is used in various applications for its **PHOTOCATALYTIC** properties. In these applications, Watch-TiO_2 in the presence of light catalyses the degradation or other reaction of undesired chemicals or microorganisms. UV- Oxidation treatment highly effective but the operational cost linked to it is a bit hurdle. Solar treatment requires no power or energy and is the only Green Treatment for water and wastewater. **SOLAROXY-3C** emits ultraviolet (UV) light which could improve treatment processes for removing micropollutants in water and wastewater, including harmful pesticides and organic matter.



APPLICATIONS

Drinking Water | Ground Water | Surface Water | Sewage Water | Ponds | Rivers

REMOVAL OF

- Organics
- Nitrogen based contaminants
- Antibiotics
- Pharmaceuticals
- Microplastics
- Odour
- Pathogens
- COD and BOD
- Heavy metals
- Metallic oxy-anions

TECHNIICAL SPECIFICATIONS

Physical Form	Crystalline (Triclinic)
Colour	White
Melting Point	Decomposes at 100°C
Molecular Weight (g/mol)	270.3
Loose bulk density (g/cc)	2.48
Crystal density at 20°C (g/cc)	1.40
Solubility g/100g of H_2O_2 at 25°C in water	6

Due to the unique properties of **SOLAROXY-3C**, it can oxidize non-filterable contaminants in Aquatic farms, Swimming pools and other recreational water. We define **SOLAROXY-3C** in the area of VAOPs, i.e. **Very Advanced Oxidation Process** which is a process that involves the generation of both hydroxyl radicals as well as sulphate radicals. These are the strongest oxidants that can degrade compounds that cannot be oxidized by conventional oxidants.





Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Box (4 x 6 kg Buckets)	24 kg	48	1250 kg
Drum	60 kg	18	1163 kg

★ *Other packaging can be considered on request*

SOILOXY

Soil Bioremediation

SOILOXY is a stable **OXYGEN** granule that can be used in **SOIL** to increase agricultural produce by rejuvenating **SOIL** and ROOTS. OXYGENATED **SOIL** assist organisms to up take more carbon which consequently increases the aerobic process in soil and reduces odours due to anerobic conditions. Biodegradation of organic carbon, nitrogen and phosphorous increases the uptake of CARBON and maintain a healthy ecosystem with **SOILOXY**. The controlled release of **OXYGEN** assist microbes in aerobic degradation of nutrients and contaminants into non-toxic end products.

APPLICATIONS

- Agriculture Farming
- Soil Remediation
- Biological Treatment

FEATURES

- Improve soil's hydraulic conductivity
- Maintain and protect healthy roots
- Enhance enzyme diversity
- Speed up aerobic and biological activity
- Increase total soil microbes population
- Enables plants to adsorb more CO_2

Future Agriculture Extreme Low Oxygen in the Soils

Oxygen in the soils is not just important to most soil organisms, but it also affect the chemistry of the soil and the atmosphere above. Regions in soil with extremely low oxygen are called "**Dead Agriculture Zones**" which are uninhabitable for most agricultural products like wheat, rice and corn. In addition to the environmental impact, dead zones are of big concern for agriculture. The newly discovered **SOILOXY** is unique, which in process form **Oxygen** and the land where it is used remains rich in **OXYGEN** for some years and this supports intense Plant Growth.









Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Box (4 x 6 kg Buckets)	24 kg	48	1250 kg
Drum	60 kg	18	1163 kg

★ *Other packaging can be considered on request*

LEGIOOXY

Rapid Way to Eliminate Legionella

Legionnaire's disease is a type of pneumonia which can cause serious illness in pople, escpecially smokers, and those with underlying health conditions. 5 out of 10 infected with Legionnaires disease suffer chronic consequences, including death. This disease is caused by Legionella Bacteria which grows in water systems, particularly the ones which have limited access like evaporative air conditioning, cooling water systems, spa, pool, tubs and other equipment.



APPLICATION

Apartments | Houses & Offices | Public Buildings | Malls & Hotels | Schools & Colleges

PAY FOR PRODUCT, NOT WATER!

5 kg of **LEGIO-OXY®** powder can make up to **100 liters** of the finished product. Don't pay for water in liquid chemicals, instead try our powder excellence.

LEGIO-OXY TECHNOLOGY

LEGIO-OXY® is a complex, yet the most environmentally friendly formulation of Catalyzed Oxidation and it is very effective at oxidizing organic matter, inorganic matter, and destroying **Legionella biofilm** in one **single process.** It is a **3-in-1 formulation** in the form of powder that enables complete eradication of Legionella just in half an hour of contact time in any water system, while also preventing its regrowth.

The formulation consists of a a strong oxidizer which releases Hydrogen peroxide. However, to produce oxygen, decomposition of this released hydrogen-peroxide needs a nontoxic catalyst. This catalyst activity is handled by our proprietary Titanium Dioxide **TITANSORB™** based catalyst.





Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Box (4 x 6 kg Buckets)	24 kg	48	1250 kg
Drum	60 kg	18	1163 kg

** Other packaging can be considered on request*

VIROLOXY

Highly Effective Multipurpose Disinfectant

VIROLOXY is a highly effective, rapid-acting, multipurpose disinfectant and sanitizer based on advanced titanium catalytic mechanism. **VIROLOXY** generates sulphate and hydroxyl free radicals with superior oxidation potential. **VIROLOXY** also includes a surfactant and organic buffer chemistry. **Tested according to European, American, and International Standards** and is the best **Bactericide** and **Virucide** (Coronavirus) available in market.

APPLICATIONS

VIROLOXY can be used spray on various surfaces for disinfection. Spray the prepared solution onto surfaces, leave for 10 minutes and then wipe with a paper towel.

- Multipurpose disinfectant
- Sanitizer for surfaces
- Mould & Fungi Control
- Odour Control
- Hospitals
- Water Treatment
- Public Places
- Personal Hygiene
- Food Processing
- Aquaculture
- Veterinary Sector
- Airports
- Water Delivery System
- Equipment & Surfaces



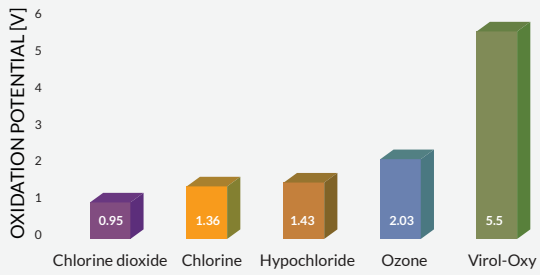
Preparation of 1% Solution

Using the table add the appropriate amount of Virol-Oxy to the relevant volume of clean water. Stir until the powder has dissolved leaving a red solution.

Preparation Table : (1% Concentration Solution)

Virol-Oxy	Water
10 Grams	1 liters
100 Grams	10 liters
500 Grams	50 liters
1000 Grams	100 liters

OXIDATION POTENTIAL COMPARISON







Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Box (4 x 6 kg Buckets)	24 kg	48	1250 kg
Drum	60 kg	18	1163 kg

★ *Other packaging can be considered on request*

RAPIDOXY

Shock treatment to Eliminate Bacteria



Watch proudly presents the pinnacle of biocidal innovation: an unparalleled solution designed for the swift and secure disinfection of water, wastewater, surface water, and hard surfaces. Our revolutionary & radical chemistry-based technology delivers remarkable speed in eliminating bacteria across diverse applications within mere seconds.

Composition:
Our cutting-edge technology combines Watch Water® OXYDES® and a strong biodegradable organic acid to create RAPIDOXY. This carefully crafted blend rapidly disintegrates in water, producing powerful hydroxyl radicals, catalyzing a process that eliminates bacteria within seconds.

Biodegradability
RAPIDOXY undergoes a clean breakdown into carbon dioxide and water, leaving no toxic residue behind, distinguishing it from other disinfection products and oxidizing biocides. It offers exceptional ease of use, storage, and transportation.

500 GRAMS OF RAPIDOXY EFFECTIVELY TREATS 100 LITERS OF CONTAMINATED WATER OR HARD SURFACES.

INDUSTRIES & APPLICATIONS

- Food and Beverages Industry
- Fruits and Vegetables
- Feed and Farming
- Cleaning and disinfection
- Process water treatment
- Facilities and Hospitals
- Raw Water
- Wastewater and water Reuse
- Rain Water
- Surface water
- Ground Water
- Reservoirs
- Ponds and Lakes
- Commercial buildings
- Residential buildings
- School and Universities
- Cooling Towers
- Heat Exchangers

TOTAL BACTERIAL ELIMINATION

Your Safeguard Against All Microbial Threats





Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Box (4 x 6 kg Buckets)	24 kg	48	1250 kg
Drum	60 kg	18	1163 kg

** Other packaging can be considered on request*

POOLOXY

Oxygen Enriched Swimming Pools Treatment

POOLOXY® is a blended shock treatment for swimming pools and whirlpools. This proprietary blend contains no chlorine and plays a very important part in maintaining healthy water. **POOLOXY®** is one easy weekly treatment rather than adding multiple chemicals separately to prevent green or cloudy water.

POOLOXY® uses Advanced Oxidation Process (AOP), the combination of oxygen technologies to generate powerful natural oxidizers, hydroxyl radicals (OH), atomic oxygen (O), hydrogen peroxide (H_2O_2) and Oxygen (O_2) from the water molecule itself. Dissolved oxygen in the pool is combined with persulfate ionization to provide long-lasting healthy and naturally sanitizing residual in the water.

- No Chlorine (NC)
- Hydroxyl Radicals (OH)
- Atomic Oxygen (O_1)
- Hydrogen Peroxide (H_2O_2)
- Molecular Oxygen (O_2)

REMOVAL OF

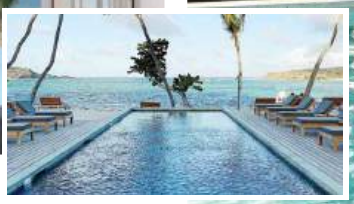


Algae | Viruses | Bacteria | Yeast | Fungi | Protozoa

FEATURES

- Water free of Microorganism
- Water that's safe to drink
- Water that heals the body
- Energizing effect
- Improved skin cell metabolism
- Antioxidative effect
- Clean, super soft, natural, oxygen-rich water
- No more red-burning eyes
- No more chloramines
- No more Trihalomethanes (THMs)
- No more cancer risks
- No more dry skin
- No more damaged hair after swimming
- Extremely beneficial for eczema and psoriasis







How to use PoolOxy?

WATER HARDNESS	DOSING RATE
<10° dH	15 grams/m^3
10° - 20° dH	20 grams/m^3
>20° dH	30 grams/m^3

★ *PUREOXY - Trade name of POOLOXY*



Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Box (4 x 6 kg Buckets)	24 kg	48	1250 kg
Drum	60 kg	18	1163 kg

★ *Other packaging can be considered on request*

LEACHOXY

Advanced Leachate Water Treatment

LeachOxy Treatment is an innovative approach based on Advanced Oxidation Process(AOP). It targets the removal of both inorganic and organic compounds from leachate water.



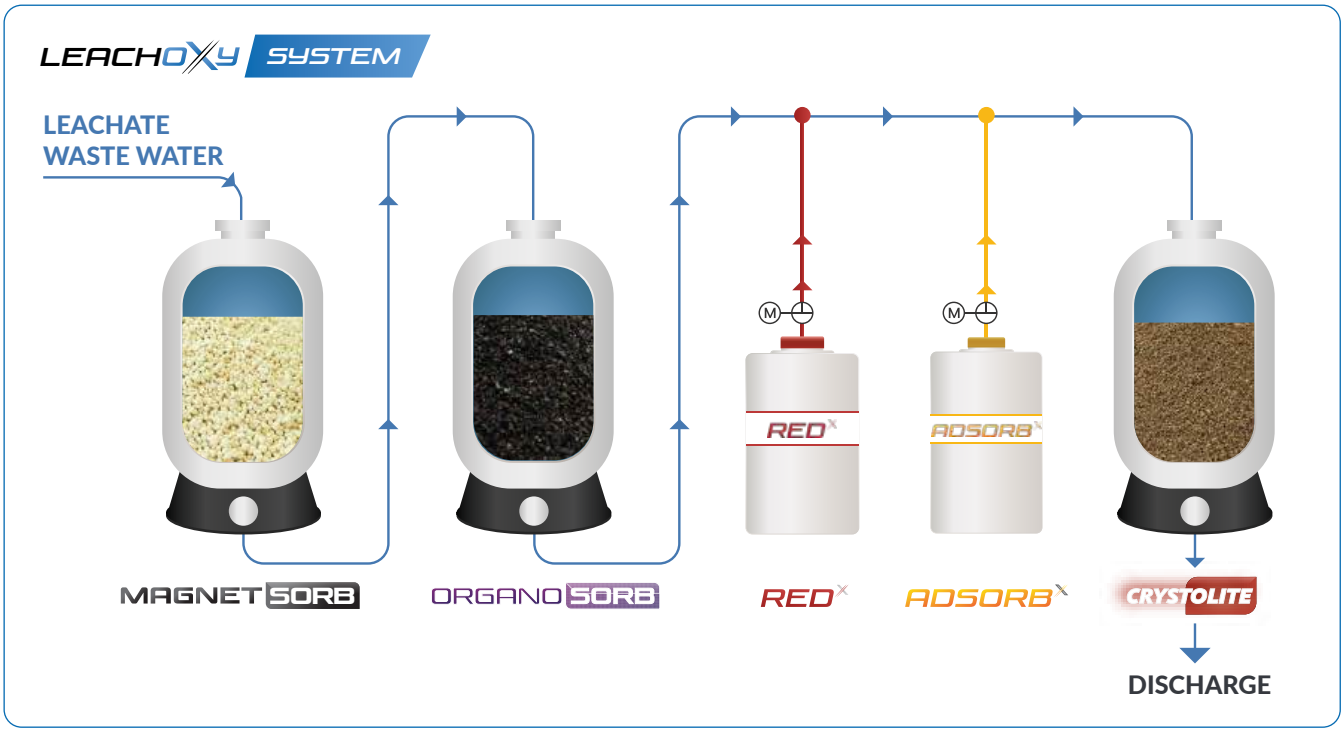
CATALYST FOR LEACHATE TREATMENT

MAGNETSORB: MagnetSorb, or Magnetic Media, is designed for leachate treatment in landfill sites. It raises the pH level of acidic leachate and reduces heavy metal concentrations, making it less harmful to the environment. This process improves leachate quality before further treatment with Organosorb.

ORGANOSORB: Leachate treatment is vital for waste management to prevent water contamination. Using metallic-organic frameworks with acid-based MOF, PMOF enhances contaminant removal, making it a top method for water and wastewater treatment. PMOF-coated ActiveSorb-CX significantly boosts adsorption capacity for various pollutants, including heavy metals, organic compounds, PFOA, PFOS and microplastics.

RED^{X},ADSORB^{X} & CRYSTOLITE: The final step of Advance Oxidation Process (AOP) through RedX (Catalyst) and AdsorbX would ensure that contaminants in leachate are effectively treated and the final filtration microfiltration step would be done with Crystolite and provide crystal clear water.

Transforming Polluted Waters into Sustainable Solutions.

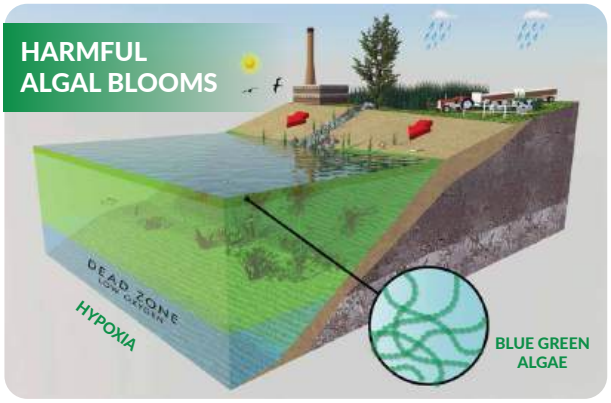


ALGAEOXY®

Algal Bloom Treatment Solutions

AlgaeOxy is a cutting-edge solution designed to combat harmful algae blooms **(HABs)** in water bodies such as lakes, ponds, and reservoirs. Utilizing Advanced Oxidation Technology **(AOT)**, **AlgaeOxy** effectively neutralizes algae while ensuring the long-term health of aquatic ecosystems.

AlgaeOxy employs a powerful combination of Solid Oxygen and an Iron Catalyst. This process generates highly reactive Hydroxyl Radicals **(OH·)**, which break down algae cells and degrade carbon compounds. As a result, it halts the rapid growth of algae and restores balance to the water.



KEY FEATURES

Advanced Oxidation Technology (AOT): Utilizes Solid Oxygen and Hydroxyl Radicals for effective algae removal.

Oxygenation: Increases dissolved oxygen (DO) levels, supporting beneficial microorganisms that compete with algae.

Adsorption Process: The Iron Catalyst adsorbs contaminants such as phosphorus, sulfur, and nitrogen, preventing oxygen depletion in water bodies.

APPLICATIONS

- Lakes, ponds, reservoirs, and coastal waters affected by algae blooms.
- Ideal for preventing hypoxia and ensuring healthier aquatic ecosystems.

SOLID OXYGEN + CATALYST

Removal of Ammonia and Nitrogen through AlgaeOxy Technology

The presence of Ammonia & Nitrogen can lead to Eutrophication, **Harmful algal Blooms**, and many potential health risks, making their removal an important environmental concern. AlgaeOxy for a convenient and ecofriendly solution.





Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Box (4 x 6 kg Buckets)	24 kg	48	1250 kg
Drum	60 kg	18	1163 kg

★ *Other packaging can be considered on request*

LAGOONOXY

Lagoon Treatment Solutions



LAGOONOXY is an innovative and powerful advanced oxidation solution designed specifically for lagoon wastewater treatment. It combines a proprietary oxidizer with the catalytic power of Red Iron-Organic Frameworks to generate potent Hydroxyl and sulfate radicals, capable of breaking down even the most recalcitrant pollutants.

LAGOONOXY uses **Advanced Oxidation processes (AOPs)** to treat wastewater. When introduced to the lagoon, **LAGOONOXY** reacts with pollutants and harmful chemicals, producing powerful radicals that rapidly degrade contaminants into harmless byproducts like carbon dioxide and water.

INNOVATIVE WATER TREATMENT

ADVANCED OXIDATION PROCESS - LAGOON TREATMENT

APPLICATIONS

- Municipal Wastewater Lagoons
- Industrial Wastewater Lagoons
- Polishing Lagoons
- Agricultural Lagoons

KEY FEATURES

Advanced Oxidation with Iron-Organic Frameworks:
LAGOONOXY utilizes a cutting-edge catalyst (Red Iron-Organic Framework) that significantly enhances the generation of hydroxyl radicals, boosting the oxidation process.





Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Box (4 x 6 kg Buckets)	24 kg	48	1250 kg
Drum	60 kg	18	1163 kg

★ *Other packaging can be considered on request*

CARBOFIX

Air Pollution and Climate Change Protection

Air pollution in the form of smoke is the primary cause of climate change. The main cause of Carbon dioxide emission is the extraction or burning of fossil fuels, burning forests, and burning stubble. This carbon dioxide is one of the major sources of air pollution. air pollution can negatively impact our day-to-day lives by causing respiratory illness, leading to death. This smog can cause eye irritation, sour throats, asthma and other respiratory problems.

CARBOFIX, developed by **Watch Water®**, sucks-out Carbon dioxide (CO_2) and CH_4 from the environment and fixes it on another oxygen which changes its structure to CO_3. This carbonate ultimately precipitates and is discharged/released in the ground forever. Carbon is fixed until we need it; we can store this fixed carbon for millions of years.



Key Features

- Alkaline Absorber
- Wide Operative Temperature Range
- High Efficiency
- Cost-Effective Advanced Technology

Pollutants

- Methane (CH_4)
- Black Carbon
- Ground-Level-Ozone (O_3)
- Sulfur dioxide (SO_2)
- Carbon dioxide (CO_2)
- Carbon monoxide (CO)
- Volatile Organic Compounds
- Polyaromatic hydrocarbons

Available in

- Powder
- Liquid
- Granular
- Beads

CARBOFIX
A BREATH OF FRESH AIR





Standard Packaging

Packging	Weight of product	Quantity/ pallet	Gross Wt./ pallet
Box (4 x 6 kg Buckets)	24 kg	48	1250 kg
Drum	60 kg	18	1163 kg

** Other packaging can be considered on request*

SOFT-NO-R

Alternative to Water Softener

SOFT - NO - R is Scale Prevention system based on **NUCLEATION ASSISTED CRYSTALLIZATION** Technology **FILTERSORB® SP3**. Conventional water softeners simply replace the Calcium (Ca^{2+}) ions in hard water with Sodium or Potassium ions that do not stick to surfaces. However, these ions do more harm than good. **FILTERSORB® SP3** is a more environmentally friendly alternative to stopping calcium carbonate from sticking to surfaces and without any addition of salt and chemicals. Green Technology and environmentally friendly solution with **SOFT - NO - R** (SOFT – NO – REGENERATION)



KEY FEATURES

- Eco-Friendly
- Installation
- Maintenance
- Technology
- Health Benefits

ENVIRONMENTAL IMPACT

- Chemical-Free
- Waste-Free



OPERATIONAL PARAMETERS & WATER IMPURITIES		
Flow direction		Up Flow
Recommended operating time	SI	5 – 80 °C
	US	41 – 176 °F
ph range		6.5 – 9.5
Hardness, max.	SI	1338 ppm (mg/l)
	US	75 gpg
Salinity, max.		35000 ppm (mg/l)
Iron, max.		0.5 ppm (mg/l)*
Manganese, max.		0.05 ppm (mg/l)
Free chlorine, max.		3 ppm (mg/l)
Copper, max.		1.3 ppm (mg/l)
Oil		free
Hydrogen sulfide		free

APPLICATIONS

RESIDENTIAL

- Whole house Scale Prevention
- Water Heaters
- Tank-less water heaters
- Bath and shower

COMMERCIAL

- Hotels, Hospitals
- Car washes
- Catering services
- Cooling Towers
- Evaporators & Humidifiers
- Coffee and Tea Brewers
- Espresso Machine
- Steam ovens

FEATURES

- Remove pre existing scale
- No Regeneration
- No Toxic DBP's
- No Back Wash
- No Electricity
- Zero Waste-Water



SALT-FREE Scale Prevention

CONVENTIONAL VS SOFTNOR

SALT-BASED WATER SOFTENER	SALTFREE WATER SOFTENER(SOFT-NO-R)
Salty Tasting water- No healthy minerals	Best quality water with healthy minerals
Corrosive Reverse Osmosis required Generating a lot of Wastewater	Non- Corrosive NO Reverse Osmosis required NO Waste Water
Salt required Pollution to fresh Water Supply	NO Salt required NO Pollution to Water Supply
HIGH — Maintenance, System Cleaning, Routing Backwash / Regeneration, Electricity	NO — Maintenance, Cleaning, Backwash / Regeneration, Electricity
UNSAFE FOR — Health, Environment, Plants	SAFE FOR — Health, Environment, Plants

Conventional water softener solutions based on ion exchange only focus on removing the Calcium (Ca^{2+}) Ion from hard water and replacing it with Sodium ions. However, a clean and more environmental friendly method is available with FILTERSORB® SP3 as an alternative solution to water softening with **Nucleation Assisted Crystallization (NAC)** . Green solution to conventional technologies with SOFTNOR system.



SPECIAL FILTER

Perfect Filter for the Complete Protection

SPECIAL FILTERS are compact Scale Prevention filters for easy installation and provides the best quality water with high Oxygen and natural mineral content. Special filters, a combination of high-performance activated Carbon block integrated with **FILTERSORB® SP3** anti-limescale beads, have a very high capacity in reduction of Scale, Chlorine, Lead and Heavy Metals, Bad Taste, Odor, Cysts and organics.

Once you try water, you will never drink bottled water again. You will realize adding a filter to your drinking water is an obvious choice. First, in the long run, our filter will make you healthy. Second, it saves lot of your money. Third, our filters are extremely good for the environment as they eliminate the need for buying water in a plastic bottle.

STOP DRINKING BOTTLED WATER

SPECIAL FILTER		BOTTLED WATER
	VS	

The Decision is Yours!

KEY FEATURES

- Quick Change Cartridge
- Auto water Shut off
- Up to 72,000 liters Capacity (Series 520UF)
- Prevents Scale
- No Sodium Addition
- Stable pH



SPECIAL FILTERS-510 & 520 combine two technologies in one filter. In **SP510** and **SP520** particles of dirt, turbidity, heavy metals and organic compounds such as herbicides, pesticides, or pharmaceutical residues are removed from the water through extremely fine activated carbon in the form of a block that surrounds the **FILTERSORB®SP3** limescale prevention beads. Through the **FILTERSORB®SP3** beads the temporary water hardness (dissolved calcium bicarbonate) is transformed into micrometer-sized aragonite-crystals.

SP520-UF **combined with** an **Ultra Filtration** membrane technology with the above two technologies to provide **0.1 micron** filtration which eliminates bacteria, viruses and provide clean drinking water.



SP 510 SPECIAL FILTER

SP 520 SPECIAL FILTER

SP 520UF SPECIAL FILTER

Model	Reduction Parameters				Capacity	Pressure	Flowrate	Filtration
	Chlorine, taste and odor	Sediment	Scale Prevention	Bacteria	liters	bar	lpm	µm
SP 510	Yes	Yes	Yes	No	12000	2 - 7	3.7	5
SP 520	Yes	Yes	Yes	No	25000	2 - 7	6.5	5
SP 520UF	Yes	Yes	Yes	Yes	72000	0.7-8.6	9.5	0.1





Standard Packaging

Packging	No. of Pieces / Box	Box/ pallet	Weight/ pallet
Box (510)	9 pcs	54	440 Kg
Box (520, 520UF)	9 pcs	36	495 Kg

NSF/ANSI/CAN 42

⋆ Other packaging can be considered on request

SPECIAL-CC

Revolutionary Scale Prevention & Catalytic Carbon Combination

Compact **ONE-stop** solution for **Scale Prevention** with **Nucleation-Assisted Crystallization (NAC) Technology**. What makes Special CC Unique is the combination with **Catalytic Carbon** which has high efficiency for the removal of **Chlorine, Chloramines, Trihalomethanes (THMs)** and Heavy Metals. The superior **FILTERSORB® SP3** scale prevention media and **Catalytic Carbon** are both certified for drinking water standards NSF/ANI/CAN 61.

APPLICATIONS

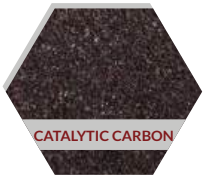
- Coffee Machines
- Water Coolers
- Water Dispensers
- Ice Machines
- Water Stations
- Fridges
- Restaurants/Cafes
- Offices

> "GREAT TASTING WATER, WITH NATURAL MINERALS AND CUTTING-EDGE SCALE PREVENTION TECHNOLOGY"

KEY FEATURES

- Chemical Free Scale Prevention & Protection
- Quick Change Cartridge
- Auto Water Shut Off
- 3/8" Speed fit connections
- Up to 30,000 litres capacity
- Alternative to water softener
- Reduce Chloramines, Chlorines, Disinfection by Products (DBP's), Chemicals, Volatile Organic Compounds
- (VOCs), Hydrogen Sulphide, and Heavy Metals
- Maintenance-free Maintain necessary minerals in water





High Capacity POU Filter











SPECIAL MAGIC

Magnesium in Cartridge

Water without **Magnesium** is dangerous and **Watch Water®** have been contacted several times from the world of **Magnesium** experts to introduce a special filter which adds **Magnesium** to the Water. All studies have proved that **Magnesium** deficiency causes heart diseases and water with **Magnesium** is the simple solution.

Magnesium is an essential mineral that plays a critical role in various biochemical processes in the human body. Magnesium deficiency is associated with almost every disease. Few Examples are heart disease, diabetes, depression, cardiac arrhythmias, atherosderosis and all types of cancer. aintaining adequate magnesium levels through a balanced diet and, if necessary, supplements can play a significant role in preventing or managing these health issues.

Special Magic is the special choice for providing safe and healthy drinking water for the mankind around the world. The Best-The Safest-The Healthiest alternative to hydrate our body with Pure Magnesium in Drinking and Cooking Water.



MAGNESIUM IN WATER
THE NUTRIENT THAT
COULD CHANGE YOUR LIFE

Is the water you are drinking right now softened or subjected to reverse osmosis?

Both the technologies exchange and remove good minerals along with the bad. In softeners, sodium replaces the essential minerals like **Calcium** and **Magnesium** and in case of reverse osmosis, all the essential minerals are removed. Through drinking water, we are supposed to receive **Magnesium**, **Calcium** and all our other minerals but unfortunately, we no longer have this luxury due to water softener and reverse osmosis.



AQUAPURIFIER X Mg

Dealkalization & Magnesium Enriched Water

CarbonateXMg is an innovative water treatment filter materials designed to deliver exceptional treatment for coffee machines and water dispensers. By integrating the unique properties of magnesium, CarbonateXMg ensures superior water purification, making it an ideal choice for various water treatment applications.

CarbonateXMg offers a cutting-edge solution for water treatment, combining superior filtration efficiency, advanced magnesium technology, and versatile application. Experience the benefits of cleaner, safer, and better-tasting water with CarbonateXMg.



OPTIMIZED WATER

- Office Coffee Systems
- Coffee Machines
- Espresso Machines
- Combi Steamers
- Vending Machines
- Baking Ovens
- Cold Beverage Dispensers

KEY FEATURES & BENEFITS

Outstanding Efficiency: Effective convert carbonate ions into bicarbonates: CarbonateXMg excels at providing best water and protection of coffee machines & drinking water.

Enhanced Water Quality: By significantly reducing harmful substances like Pharmacueticals, microplastics,PFOS-PFOA. CarbonateXMg improves the taste, odor, and overall quality of water, making it perfect for any application requiring pristine water.

AQUAPURIFIER MAKES HEALTHY DRINKING WATER

Advanced Magnesium Technology: Benefits of Natural Minerals: Incorporating magnesium into the treatment process, CarbonateXMg preserves essential minerals in the water while converting carbonate minerals into beneficial bicarbonate minerals. This unique approach not only protects water systems from limescale but also ensures that essential minerals like calcium and magnesium remain in the water.applications.

Versatile Application: Ideal for Various Uses: CarbonateXMg is perfect for a wide range of applications, including drinking water systems, coffee and tea machines, and food and beverage equipment. Its adaptability makes it a versatile solution for enhancing water quality in diverse settings.



POE and POU system

CARBON BLOCK TS3

Activated Carbon and Titansorb Based Filter Cartridge

CARBONBLOCK-TS3 is the first ever **Activated Carbon Filter** combined with Titansorb **Crystalline Powder** for high-capacity removal of heavy metals. The benefits also include high **Organics** removal capacity as well as regeneration through photocatalytic properties. **TITANSORB - P** has high photocatalytic activity, chemical stability, nontoxic nature and has the highest adsorption capacity.

CLEAN & HEALTHY WATER FOR EVERYONE





Remove up to 99% of Heavy Metals from Water
Rapid removal of Organic Micropollutants from Drinking Water

Remove particle down to 10 micron
Remove most of volatile organic chemicals (VOC's)

Self Regenerating CARBONBLOCK TS3

CARBONBLOCK-TS3 cartridges are considered to be the most advanced method for reducing a broad spectrum of toxic contaminants based on organics and inorganics including prescription drugs and BPA.

CARBONBLOCK-TS3 cartridges implement two filtration stages, combining Activated Carbon and Titansorb with both electro kinetic adsorption and physiochemical adsorption. Titansorb-P is the most effective due to its high photocatalytic activity, chemical stability, nontoxic nature and its highest adsorption capacity **TITANSORB - P**.

CONTAMINANTS REMOVED

- Humic Acids,
- Fumic Acids
- Pesticides
- Chlorinated Compounds
- All sort of Dyes
- Microplastic Compounds
- Antibiotics & Pharmaceutical
- Pathogenic Bacteria
- Heavy Metals- Arsenic, Uranium, Chromium, Radium, Copper, Mercury, Nickel, Fluorides, Radioactive metals and Lead
- Phenolic Compounds



SCALE-TECH

Scale Prevention Technology - SpinX

Watch Water® SCALETECH cartridge systems provide scale protection on internal and external plumbing surfaces. Our cartridge-based systems can be installed on a cold water line before a water- using device (water heater, hot-beverage system, appliance, steamer, etc.) that needs hard water protection. Watch Water uses FilterSorb SP3 filled in the new **SpinX** cartridges and place it in the standard big blue housings (10" and 20" variants).



BENEFITS

- NO pH or TDS Change
- Cost Efficient
- Simple Installation
- Zero Maintenance
- Zero Electricity Consumption
- Minerals Preserved
- No salt
- Scale Prevention

ONE PRODUCT MANY APPLICATIONS...





FILTERSORB® SP3 media is the result of extensive research work along with its undisputable success in the market worldwide. Watch Water's **Nucleation Assisted Crystallization (NAC)** technology eliminates scale build-up naturally and effectively by converting dissolved hard minerals into inert microscopic crystal particles that harmlessly pass with water through the drain. Unlike salt-based water softeners, our systems will not demineralize your water. Our Cartridges run without any electricity. Enjoy wonderful, salt-free drinking water with no soap lather formation in the shower or while cleaning the dishes.



SALT-FREE
Scale Prevention





SYSTEM PARAMETERS				
Model	Scale Tech SL 10	Scale Tech SL 20	Scale Tech BB 10	Scale Tech BB 20
Service* Flow rate	4.5 lpm/ 1.2 gpm	8.5 lpm/ 2.2 gpm	12 lpm/ 3.2 gpm	16 lpm/ 4.2 gpm
Maximum** Flow rate	6.0 lpm/ 1.6 gpm	11.0 lpm/ 2.9 gpm	15.0 lpm/ 4.0 gpm	21.0 lpm/ 5.5 gpm
Dimensions	10" x 2.5"	20" x 2.5"	10" x 4.5"	20" x 4.5"
Media Amount	250 ml	500 ml	750 ml	1000 ml

* The system can maintain scale protection 24/7 at this flow rate.
** The system can maintain scale protection for several minutes temporarily, but not constantly at this flow rate.

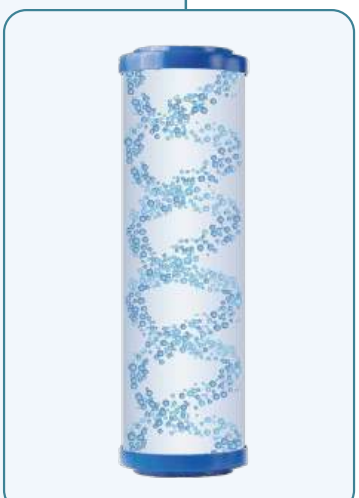
FILTERSORB® SP3 is an advanced scale prevention technology that utilizes Nucleation Assisted Crystallization (NAC) for optimal water treatment. Designed to fit seamlessly in a Big Blue cartridge housing, the system features the innovative SpinX technology, which enables an upflow vortech-style operation. This process ensures 100% media fluidization, maximizing the performance and longevity of the scale prevention system



SpinX

OPTIMIZE FLUIDIZATION - SPINX

The cartridges now include the new **SpinX** distribution technology. The **SpinX** technology in the cartridges is way more efficient for water distribution. The bottom distributor has slits at a certain angle such that it creates a lot of agitation in the water. This agitation creates a tornado effect and fluidizes the media bed, hence ensuring widespread water distribution. It optimizes the treatment capacity performance of our **NAC** media by creating an internal forced turbulence that allows a uniform distribution of the **FILTERSORB® SP3** media bed during the treatment.



SCALE TRAPP

Scale Prevention and Corrosion Control



SCALETRAPP is a breakthrough in Scale Prevention & Passivation Technology with a One Step Scale prevention system. SCALETRAPP system consists of FILTERSORB® SP3 for scale prevention of temporary hardness and MgO beads (TRAPPSORB®) granules enhance the corrosion control and reduces the dissolved metals.

APPLICATIONS

- Washing Machine
- Dish Washer
- Steam Oven's
- Water Heaters
- Coffee Machines
- Home Appliance's
- Drinking Water

ADVANTAGES

- Quick Exchange Systems
- Highly efficient scale prevention
- Best water for water dispensers, dish washers, combi-steamers and ovens, water for coffee machines and vending machines including all water heaters.

Simple Scale Prevention System

Filtersorb SP3 (S) & SPA(MGO) Beads

SCALETRAPP is a very simple scale prevention system with environmental friendly technology developed for Point of Entry/Point of Use diverse requirements residential and commercial applications. SCALETRAPP provides quality water for drinking water, coffee water and water for all kinds of vending machines. The One Step solution provides even more effective water optimization results and consistently high water quality for all kinds of Hot and Cold drinks, Kitchens, Restaurants, Laundries, Bakeries and all other food and beverage applications.

ADVANCED TECHNOLOGY MEETS CRYSTAL CLEAR RESULTS







NITROSOFT

Nitrates Removal & Water Softening in a Single Process

NITROSOFT treatment system features a cabinet mounted NITROSOFT media. The units are sized for one family house, two family house or for a maximum design flow of 3 m^3/h (13.2 gpm) for three family house. Each NITROSOFT tank contains NITROSOFT and HardnessTrapp media in a 50-50 ratio. NITROSOFT also features a mixing valve that blends treated and untreated water to attain a blended nitrate concentration at a certain set point. These systems are equipped with a regeneration/brine well and brine valve system to regenerate the media.

KEY FEATURES

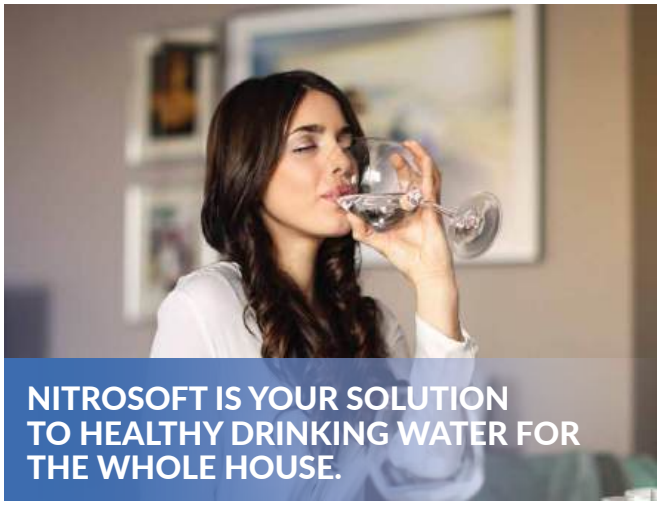
- Easy and user-friendly operation
- High quality brand components
- Available in different sizes
- Suitable for small, medium-sized and large household



Never use Water Softener Alone When Nitrates in Water

Using water softeners in the presence of nitrates is discouraged due to the formation of Sodium Nitrate, a respiratory irritant causing shortness of breath and coughing. Nitrates can convert to nitrites in the body, associated with Methemoglobinemia, a potentially fatal condition hindering oxygen uptake. Additionally, Sodium Nitrates can transform into nitrosamines, known carcinogens.

" TWO-IN ONE PROCESS OF NITRATES REMOVAL & WATER SOFTENING "





Model	Size of Household	Type	Flow	Connection	DxWxH	Nitrosoft Inside
ONE	One Family Household (2 – 6 person)	POE	1 m^3/h	1"	56 x 31 x 74 cm	10 L
TWO	Two Family Household (6 – 12 person)	POE	2 m^3/h	1"	56 x 31 x 120 cm	20 L
THREE	Three Family Household (12 – 18 person)	POE	3 m^3/h	1"	56 x 31 x 120 cm	30 L

AMBERSOFT

Packed Bed Water Softeners

Watch Water® AMBERSOFT uses Packed Bed Design for water softening. When the water enters the bed during the service cycle, it progressively comes into contact with highly regenerated resin, which ensures production of a high-quality softened water, minimizes chances of ionic leakage and maximizes resin bed operation capacity. Regeneration can be performed faster and more efficiently, with reduced chemical consumption, less rinse water, reduced waste disposal requirements, and lower overall expense.

APPLICATIONS

Commercial

Industrial

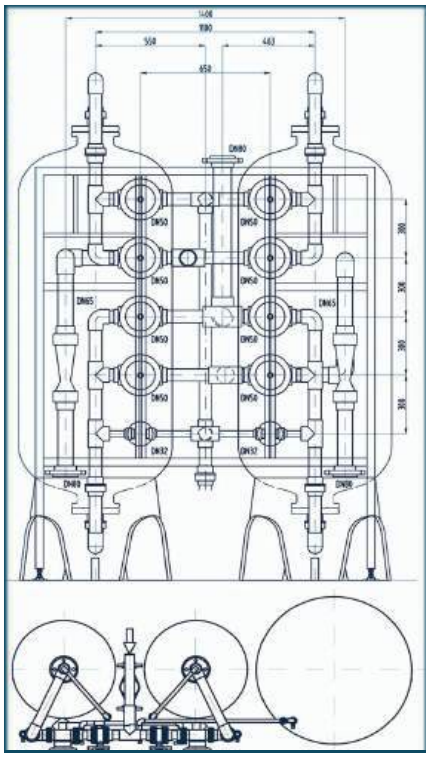


FEATURES

- Packed bed units
- Improved effluent hardness quality
- Low operating costs
- High exchange capacity
- Reduced salt consumption
- Reduced water consumption per regeneration cycle
- Environmental Friendly
- State-of-the-art treated water quality
- Efficient and simple backwash capability

PRE-TREATMENT

Pretreatment requirement depends on the raw water analysis. If Iron and Manganese contaminants exceeds control limits, pre-treatment is mandatory with **KATALYST LIGHT®** to provide better resin lifetime and efficiency. Please contact us for more information on pretreatment processes.



BENEFITS

1. Improved effluent hardness quality based on the bleed concentration of hardness from the softener. This is due to the bottom of the resin tank being cleaner in the up-flow design than typical down-flow systems.
2. Improved effluent iron quality for systems operating on high levels of ferrous iron. The same benefits of improved hardness removal also enhance the system's ability to remove elevated levels of iron.
3. Reduced salt consumption since units operate more efficiently. The overall salt consumption of a AMBERSOFT system can be up to 50% less than in a similar downflow system.
4. Reduced water consumption per regeneration cycle.
5. Environmental benefits are also addressed, as counter current systems are inherently more efficient and less wasteful than downflow designs. **AMBERSOFT** technology can be deemed the greenest softener design.

QUICK EXCHANGE SYSTEMS

Revolutionary Quick Exchange Valve

The Quick Exchange System (QES) valve is an innovative solution designed to streamline the process of exchanging systems in water treatment applications. This cutting-edge valve is engineered to facilitate quick and hassle-free system changes, making it an invaluable asset for businesses looking to optimize their operations and minimize down-time.

Enhanced Efficiency: The QES valve significantly reduces the time required to change systems, allowing for swift transitions and minimal disruption to operations. This enhanced efficiency translates to increased productivity and lower labor costs.



APPLICATIONS

- Coffee Machines
- Espresso Machines
- Vending Machines
- Water Dispensers
- Cold Beverage Dispensers
- Restaurants & Cafes
- Ice Machines
- Offices

CONVENIENT TO HANDLE WITHIN SECONDS!



Shut-off Inlet/Outlet connections → Remove handle lock & turn the lever → Remove handle head & save for next use. → Remove Seal & Install new tank → Insert Handle lock & proceed for service

TECHNICAL SPECIFICATIONS (Model : QES-3/4)

Top Tank Connection	2.5”		Plumbing Connections	3/4”
Distributor Pilot	20 mm (0.78 inch)			
Pressure	Min	1.4 Bar | 20 PSI	Max	8 Bar | 116 PSI
Water Temperature	Min	1°C | 34°F	Max	43°C | 110°F
Ambient Temperature	Min	1°C | 34°F	Max	43°C | 110°F
Flow Rate (Maximum)	7 m^3/h | 30.8 gpm			
Compatible Tank Sizes	2.5” Top Opening			

WATCH WATER COMPONENTS

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Pressure Vessels


Distribution System


Control Valves


Softener Cabinet


Brine Tanks


Membranes


Filter Materials & Dosing Chemicals


Point Of Use (POU)

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WATCH WATER CARBONS

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WATCH WATER
ACTIVATED CARBON

Watch Water Activated Carbons are suitable for a wide range of applications, made from various high quality raw materials.

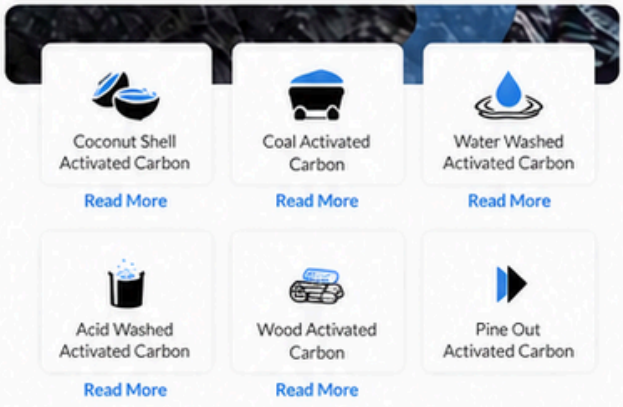
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