

Polyphosphate Crystals

Slow Dissolving Polyphosphate

Essential Mineral

Polyphosphates are used in water systems worldwide to control hard water issues like iron and calcium.

They are also essential minerals in the human body and play a role in blood coagulation. Polyphosphates can be derived by mining minerals or plant extraction, and are available in liquid or solid form for various applications.

ROTEK uses polyphosphate crystals in our filter descaler products to treat and sequester hard water minerals, which can eliminate the need for an ion exchange water softener and be more economical and environmentally friendly.



6-12mm Crystals + 19mm Crystal Balls

What are the Benefits?

- **Slow Dissolving** - Our polyphosphate crystals are meticulously engineered to dissolve gradually in water, ensuring a sustained release of their active properties. Experience the prolonged effectiveness that comes with slow dissolution.
- **Crystal Clear Solution** - Say goodbye to cloudy water! Our polyphosphate crystals maintain water clarity without causing any turbidity or cloudiness. Enjoy a crystal clear and visually appealing water environment.
- **Non-Clumping Formula** - Don't let slow water flow hinder the performance. Our polyphosphate crystals are specifically formulated to resist clumping, even when exposed to slower water movement. You can trust that they will remain free-flowing and effective.



25kg/bucket 1kg/bag

Physical & Chemical Properties		Test Data: Food-Grade Security in Drinking Water Treatment	
Appearance	Transparent crystals+Crystal Balls	Arsenic (AS)	<0.005 mg/L
Density	1.7 g/m ³	Cadmium (Cd)	<0.0001 mg/L
pH value	7.0±0.5 mg/L	Chromium (Cr)	<0.004 mg/L
Size	6-12mm Crystals+19mm Crystal Balls	Plumbum (Pb)	<0.001 mg/L
P2O5 (%)	61~69%	Ag	<0.005 mg/L
Na2O (%)	20~30%	Selenium (Se)	<0.001 mg/L
CaO5 (%)	7~15%	Hg	<0.0002 mg/L

Product Advantages

- Pipeline bypass, suitable for pipes of various sizes
- Long dissolution time and uniform dissolute on, making it easy to replace
- It can replace part of resin softening equipment and is cheaper than softening regeneration salt

The anti-scaling and anti-corrosion product is widely used in countries such as the United States, the United Kingdom, Japan, and Europe, and has proven to be effective in inhibiting scaling and prolonging the service life of the equipment. It is particularly useful in the anti-scaling and anti-corrosion of domestic and industrial water, and its performance is stable and reliable.

Dangerous You Must Know About Pipeline Scaling and Corrosion: The Importance of Preventing Hot Water Pipe Damage

1. Pipeline corrosion increases heavy metals in water

Lead: Reduction of red blood cells, loss of appetite, inhalation of 5-10 mg/day is easy to cause poisoning.

Cadmium: Hinders calcium absorption and causes rickets.

Zinc: May cause cancer, language barriers, pneumonia, liver cirrhosis.

Iron: Produces rust to pollute water quality and affect vision.

2. Pipeline Fouling

Calcium and magnesium scaling: Block the pipeline, affect the water supply, and reduce the heat transferefficiency.

Silica: Increases turbidity, causes stubborn scaling, reduces heat transfer efficiency.

3. Energy consumption: Pipeline scaling reduces heat transfer efficiency and causes energy loss.

Applications

This anti-scaling and anti-corrosion agent can be used for warm water boilers, tea water heaters, heat exchangers, water heaters, solar water heaters, etc.

It can also be combined with ion exchange resin as a scale inhibitor.

There is also a Polyphosphate Dosing System that can be matched.

Food Safety

The product is safe for use in drinking water, food processing, and bathing.

In the EU, the concentration of phosphate in drinking water should not be higher than 0.5 ppm.

In China, the polyphosphate salts melted and polymerized are neutralized at ultra-high temperatures (1200°C-1700°C), and are harmless to the human body.

In US, The FDA has included colorless, odorless, and non-toxic drinking water treatment agents in the GRAS (generally recognized as safe) catalog.