

PROTECT-ALL

Granular Water Treatment

Advantages and Treatment Functions of Protect-All:

Protect-All is a orthophosphate/polyphosphate granular blend formulated specifically to be used for the inhibition of internal corrosion in potable water distribution systems. Protect-All contains cleansing ingredients necessary for the gradual removal of existing mineral scale deposits. The product includes metal phosphatizing ingredients required for the development and maintenance of corrosion protective film formation. Consider Protect-All granular potable water treatment if you are in need of an effective corrosion inhibitor.

- ▶ Protect-All is a unique orthophosphate granular blend for the control of internal corrosion in potable and non-potable water distribution systems.
- ▶ Protect-All will suppress primarily the anodic electrochemical potential thereby neutralizing the circuit necessary to form a corrosion cell on the interior surface of the distribution pipe and equipment.
- ▶ Along with functioning as a corrosion inhibitor, Protect-All has ingredients that will stabilize mineral ions such as iron, calcium, magnesium and manganese preventing mineral scale deposits and discolored water complaints.
- ▶ Once added to a water distribution system, the treatment is also an excellent pH buffering agent to prevent swings in pH to the acidity side.
- ▶ Reduces the demand for chlorine/chloramines because of the stabilization of minerals and reduction of scale deposits - effectively improving disinfection throughout the water distribution system.
- ▶ Gradual removal and inhibition of mineral scale deposits formations in hot water lines and residential water heaters.

Protect-All Chemical Properties and Certification:

- **Composition:** Powders and Granules
- **Bulk Density:** 68 lbs./cubic foot
- **% P₂O₅ - Blended:** 61.3
- **Total Na₂O:** 27.8
- **NSF Certification:** Standard 60 (1991)



- **Appearance:** Clean, white
- **pH of 1% solution:** 5.1 - 5.4
- **Specific gravity:** 1.09
- **Solubility:** 3.0 lbs/ gal
- **NSF max potable dosage:** 12.0 mg/L

Protect-All Application and Dosage:

Protect-All granular blended phosphate can be applied to a water system by a chemical injection metering pump once liquified with water. Protect-All goes easily into solution with agitation in concentrations of up to 3 pounds per gallon. Typical treatment dosages range from 0.75 to 3.75 mg/L (calculated) and higher for non-potable water systems.

Packaging, Shipping and Handling of Protect-All:

Protect-All granular is packaged in 50 and 300 pound containers FOB Clearwater, FL 33760. Protect-All is shipped in securely tamper evident sealed containers. Please refer to MSDS for handling information.



For more complete information on properties and safe handling of this material, see the SPER Chemical Material Safety Data Sheet [MSDS].

NOTICE

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