

# LINEAR<sup>2</sup>

## Granular Water Treatment

### Treatment Functions and Advantages of using Linear<sup>2</sup> :

Linear<sup>2</sup> is a linear chain polyphosphate manufactured specifically to resist reversion or hydrolytic chemical breakdown. This specialty polyphosphate is produced with a high P<sub>2</sub>O<sub>5</sub> percentage to provide extended use. This product is produced to be stable under otherwise extreme conditions of temperature, time and where the requirements of potability must be met

- ▶ Linear<sup>2</sup> is a unique polyphosphate that is a specialty glass, with a P<sub>2</sub>O<sub>5</sub> at the very high end of the range utilizing the benefits of a stable long molecular chain polyphosphate. This makes it especially useful in circulating water systems which must have a long shelf or use life.
- ▶ Linear<sup>2</sup> has 1/3+ slower reversion rate compared with standard hexametaphosphate which makes it a more stable treatment and has longer use life.
- ▶ Maintains water clarity through functional sequestration of minerals and scale control - resulting in fewer customer water complaints and reduced flushing requirements.
- ▶ Reduced corrosion through cathodic “deadening” of the corrosion cell potential thereby inhibiting corrosion through out the water distribution plumbing.
- ▶ 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.
- ▶ Since Linear<sup>2</sup> is manufactured with highly stable protocol, the formulation of liquid concentration at the project site for injection remains effective over longer periods of time than standard phosphate treatments.

### Linear<sup>2</sup> Chemical Properties and Certification:

- **Composition:** Powders and granules
- **Bulk Density:** 79 lbs./cubic feet
- **% P<sub>2</sub>O<sub>5</sub> - Blended:** 69.6
- **NaO/P<sub>2</sub>O<sub>5</sub> :** 1.00
- **NSF Certification:** Standard 60 (1994)



- **Appearance:** Clean, white
- **pH of 1% solution:** 5.6 - 6.7
- **Specific gravity:** 1.2
- **Solubility:** 3.0 lbs/gal +
- **NSF max potable dosage:** 12 mg/L

### Linear<sup>2</sup> Application and Dosage:

Linear<sup>2</sup> granular polyphosphate can be applied to a water system using a chemical injection metering pump once liquified with water. Linear<sup>2</sup> goes easily into solution with agitation in concentrations of up to 3 lbs. per gallon of water. Typical potable treatment dosages range from 0.75 to 3.75 and higher for non-potable water systems.

### Packaging, Shipping and Handling of Linear<sup>2</sup>:

Linear<sup>2</sup> granular is packaged in 50 and 300 pound containers FOB Clearwater, FL 33760. Linear<sup>2</sup> is shipped in securely tagged and 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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