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TECHNICAL DATA SHEET

H 222

Potable Water Corrosion Inhibitor

1. PRODUCT DESCRIPTION

H 222 is a clear, odorless and tasteless corrosion inhibitor specially formulated for the protection of potable water and domestic water distribution systems.

It is designed to:

• Control corrosion in drinking water pipelines
• Reduce “Red Water” caused by iron dissolution
• Protect storage tanks and distribution networks
• Stabilize softened or naturally low-alkalinity water

H 222 forms a protective silicate-based film on internal metal surfaces, reducing metal release and preventing water discoloration.

The product does not affect the taste, odor, or appearance of water at recommended dosage level.

2. MECHANISM OF ACTION

H 222 works by forming a thin, insoluble silicate protective layer on metal surfaces.

This passive film:

• Reduces iron solubility
• Minimizes corrosion rates
• Stabilizes metal surfaces in low-alkalinity conditions
• Controls red water complaints

3. APPLICATION & DOSAGE

Application:
H 222 should be continuously dosed into the potable water system using a proportional dosing system.

Target Control Level:
Maintain silica concentration at:
5 – 15 ppm above the raw water silica content.

Example:
If raw water silica = 5 ppm
Target treated silica = 25 – 30 ppm

Monitoring:
Silica levels should be tested regularly to ensure target concentration is maintained.

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4. TYPICAL PHYSICAL & CHEMICAL PROPERTIES

Appearance: Clear viscous liquid
Odor: None
Taste: None (at recommended dosage)
pH (as supplied): 11.0 – 12.5
Specific Gravity @ 25°C: 1.30 – 1.40
Solubility: Completely soluble in water
Flammability: Non-flammable
Volatility: Non-volatile

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5. COMPATIBILITY

Compatible with:

- Carbon Steel
- Cast Iron
- Copper
- Galvanized Steel
- Potable water storage tanks
- aluminum

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6. PACKAGING

Available in:

25 kg HDPE drums

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7. STORAGE & SHELF LIFE

Store in tightly closed original containers in a cool, dry, well-ventilated area.
Protect from freezing.

Shelf Life: 24 months under recommended storage conditions.