

METALLOID INSIDER

January 2026

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Product of the Month **Metcor 71**

A botanical-based, environmentally friendly, corrosion preventative that will protect all metal surfaces from moisture, high humidity, and salt spray vapors. It contains no petroleum oil or hazardous materials. Request more information and find out more about Metcor 71 at www.metalloidcorp.com.

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Corrosion Prevention for Precision Parts: Science, Methods, and Solutions

Precision parts require careful handling to prevent corrosion, which can compromise performance, accuracy, and lifespan. Corrosion is an electrochemical process: metals lose electrons (anodic reaction) while oxygen or hydrogen gains electrons (cathodic reaction), forming rust or oxides. Contaminants like salts, oils, and acids accelerate this process.

1. Clean

Remove all contaminants to stop corrosion before it starts:

- Degrease: Remove oils and machining fluids
- Ultrasonic cleaning: Dislodge microscopic particles.
- Deionized water rinse: Remove ionic residues

2. Protect

Apply chemical or physical barriers to prevent oxidation:

- Temporary inhibitors: Oils or vapor-phase compounds
- Passivation: Acid treatments form stable oxide layers
- Conversion/sacrificial coatings: Zinc, phosphate, or chromate coatings

3. Store & Monitor

Maintain protection until parts are used:

- Controlled humidity, VPI packaging, or desiccants.
- Regular inspections or testing

Key Takeaway:

Clean → Protect → Store ensures precision parts remain corrosion-free, maintain tolerances, and extend service life.

Metalloid Corrosion Inhibitors

Metcor 52 Water-Based Corrosion Preventative

Metcor 57 Solvent-Based Corrosion Preventative

Metcor 71 Botanical-Based NSF Food-Approved Corrosion Preventative

Metcor 908LV Mineral Oil-Based Corrosion Preventative

Metalloid Corrosion Inhibitors

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