

VmCI-307® Powder

Corrosion Inhibiting Powder for Multi-Metals



PRODUCT DESCRIPTION

VmCI-307® Vapor multi-metal Corrosion Inhibitor powder protects both ferrous and non-ferrous metals from corrosion in recessed areas, interior cavities, and voids.

VmCI-307® provides an extremely efficient dry method to protect metals within an enclosed space. The VmCI vaporizes and adsorbs on all metal surfaces, including recessed sections and interior cavities.

FEATURES

- Does not contain silicates, phosphates, nitrites, secondary amines, or heavy metals
- Provides up to 24 months of continuous protection
- Creates monomolecular inhibiting layer
- Vapor phase inhibiting action protects inaccessible surfaces
- If VmCI layer is disturbed by moisture or opening of the enclosed space, it will be replenished by continuous vapor redeposition
- Easy to apply
- VmCI layer does not need to be removed prior to processing or use in most cases
- Powder is easily removed by air gun or water
- VmCI layer does not interfere with operation of mechanical components
- Provides multi-metal protection
- Commercial equivalent to MIL I-22110C
- NSN 6850-01-632-7695

APPLICATION

- Bottom plate protection of above-ground petroleum storage tanks
- Tubular structures, pipes, and vessels
- Internal surfaces of void spaces such as tanks, boilers, and heat exchangers
- Dry lay-up of closed circuit cooling systems
- Equipment protection after hydrostatic testing
- Cavities and void spaces on ships, barges, offshore platforms, sewage plants, dams, etc.

METHOD OF APPLICATION

Apply powder by dusting, fogging, or sprinkling. After application simply cover, close, or seal off the interior cavity or void. Fogging is easily achieved with a low pressure air hose and sandblast cup. Large conventional sandblasting systems can also be used. VmCI-307® can be easily removed by using a low pressure air gun or water rinse.

Precautions: VmCI-307® has a tendency to clump and form chunks in the packaged drum. Clumping does not affect the performance of the inhibitor. Large clumps of powder can be broken apart and used as normal.

- Powder is not soluble in hydrocarbon fluids. Rinse powder from vessels before adding hydrocarbon fluids.
- Powder should be removed from the area prior to high temperature processing or welding.

DOSAGE

Protects up to 1 ft³ (28 liter) per 0.3-0.5 oz. (8.4-14.2 g) of powder (300-500 g/m³) of interior space.

METALS PROTECTED

- Carbon Steel
- Stainless Steel
- Copper
- Brass
- Aluminum
- Cast Iron
- Silver
- Galvanized Steel
- Tinplate

TYPICAL PROPERTIES

Appearance	White to off-white powder
pH	6-7 (1% aqueous)
Solubility in Water at 20°C	< 1%

STANDARD TEST METHODS

NACE TM0208-2008	Vapor Inhibiting Ability
NACE RP0487-2000	Selection of Rust Preventatives
MIL-I-22110C	Vapor Inhibiting Ability

PACKAGING AND STORAGE

VmCI-307[®] is available in 5 pound (2.3 kg), 50 pound (22.7 kg) and 100 pound (45.4 kg) lined drums. Store in a sealed container in a dry warehouse avoiding direct exposure to sunlight, with temperature not exceeding 150°F (65°C). Shelf life is up to 24 months.

FOR INDUSTRIAL USE ONLY
KEEP OUT OF REACH OF CHILDREN
KEEP CONTAINER TIGHTLY CLOSED
NOT FOR INTERNAL CONSUMPTION
CONSULT SAFETY DATA SHEET FOR MORE INFORMATION

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