



CORROSION INHIBITING VpCI® POWDERS

VpCI®-649 Powder

VpCI®-649 PMF



PRODUCT DESCRIPTION

VpCI-649 Powder is a unique powder formulation for protecting different metals against corrosion. It is designed to provide long-term protection in open and closed loop cooling systems.

VpCI-649 Powder combines contact and volatile corrosion inhibitors in a non-toxic, biodegradable formulation that does not contain nitrites, phosphates, chromates, or heavy metals. Being environmentally safe, it helps solve the problem of disposal, particularly for large quantities of water.

VpCI-649 Powder also contains a blend of organic-based scale inhibitors, which prevent scale formation in pipes and towers.

FEATURES

- Effective for a broad range of applications to stop aggressive corrosion from fresh water
- Biodegradable, environmentally friendly, and nitrite-free
- Low concentration effectiveness provides economical treatment
- Vapor phase action provides protection to areas that contact inhibitors cannot reach
- Readily water-soluble
- Multimetal protection of copper, steel, zinc, aluminum, etc.

- Easy application
- Does not contain free amines
- Economical (100% active)
- Easily traceable utilizing a Molybdenum test kit. VpCI-649 Powder contains 1.2% Mo by weight, in the form $\text{Na}_2\text{MoO}_4 \cdot 2\text{H}_2\text{O}$ (at 3.0% of total formulation). See reversed side for Mo vs. VpCI-649 Powder concentration chart
- If powder without molybdate is preferred, VpCI-649 PMF is available

TYPICAL APPLICATIONS

- Unique inhibitor/antiscalant for open and closed loop cooling systems
- Fire extinguishing systems
- Inhibitor for hydrostatic testing of pipelines, casings, tanks, and valves
- Excellent for lay-up of cooling towers

METHOD OF APPLICATION

VpCI-649 Powder should be added starting at (1500-2000 ppm) by weight to the water.

PACKAGING

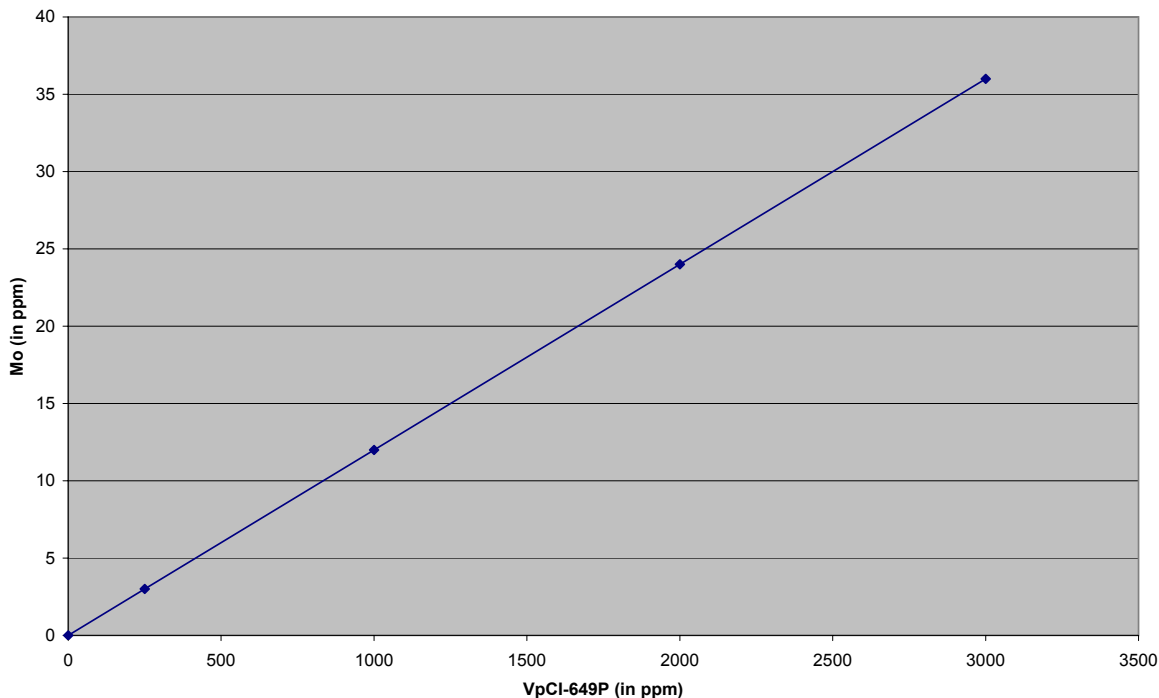
VpCI-649 Powder is available in 2.2 pound (1 kg) water-soluble bags, 50 pound (22 kg), and 100 pound (45 kg) packages. Product should be stored in a tightly closed container. Shelf life is 24 months.

TYPICAL PROPERTIES

Appearance	White powder
Type	Water-soluble
Non-volatile Content	97-100%
pH	11-12.5 (1% solution in water)



Theoretical concentration of Molybdenum vs. VpCI-649P



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

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