



CORTEC
CORPORATION

Environmentally Safe VpCI®/MCI® Technologies

VpCI®-649 HP

DESCRIPTION

VpCI®-649 HP is a unique concentrated liquid formulation designed to provide long-term protection for ferrous and non-ferrous metals in water and glycol closed-loop systems. VpCI®-649 HP is effective at corrosion protection during hydrostatic testing.

VpCI®-649 HP combines contact and Vapor phase Corrosion Inhibitors, along with a hard water stabilizer and an organic dispersing agent. The product does not contain nitrite, phosphate, molybdenum, or chromate.

PACKAGING & STORAGE

VpCI®-649 HP is available in 5 gallon (19 L) pails, 55 gallon (208 L) drums, liquid totes, and bulk.

To ensure best product performance, store in original packaging, indoors, and out of direct sunlight at 40-100 °F (4-38 °C).

Shelf life: 2 years

VpCI® ADDITIVES FOR WATER TREATMENT



FEATURES

- Contains hard water stabilizer
- Contains organic dispersing agent
- Contains a PTSA tracer
- Extremely low chloride contribution (less than 0.6 ppm at 0.3% dosage)
- Certified to meet ANSI/NSF Standard 61 for drinking water system components*

BENEFITS

- Effective for a broad range of applications to stop aggressive corrosion in systems containing fresh water or glycol coolants
- Vapor-phase action provides protection to areas that contact corrosion inhibitor cannot reach
- Protects steel, copper, galvanized steel, and aluminum
- Effective at dosages as low as 0.3% by weight

TYPICAL PROPERTIES

Appearance	Yellow to Amber Liquid
Density	9.3-9.8 lb/gal (1.12-1.18 kg/L)
Type	Water-Based
pH	9.1-9.6 (Neat)
Freeze Point	-2 °F (-19 °C)

*When used as a surface treatment at concentrations up to 3.0% and drained.

VpCI®-649 HP

APPLICATIONS

- Closed loop cooling systems
- Hydrostatic testing of vessels, pipelines, and valves
- Cooling system layout
- New construction piping
- Equipment used in transport of potable water
- Fire extinguishing system layout

DOSAGE

VpCI®-649 HP General Dosing Guidelines

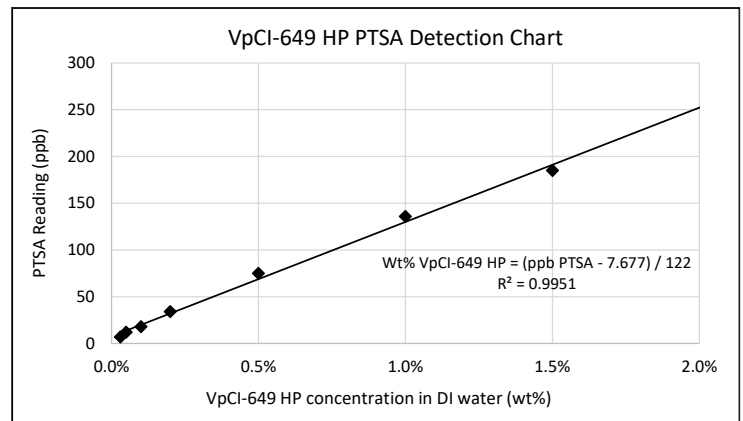
Protection Length	Recommended Dosage*	
	Weight %	ppm
During Testing & Operational Protection	0.3	3000
Up to 6 months	0.5	5000
6-12 months	1.0	10000
12-24 months	1.5	15000

***These are general dosing guidelines and may not be suitable for every application. Please contact Cortec® Technical Service for specific dosing information.**

Product Detection: For most accurate concentration monitoring, the PTSA tracer should be used. Refractometry and pH are alternative options.

CONSIDERATIONS

The PTSA tracer used in VpCI®-649 HP degrades with exposure to light. Solutions of VpCI®-649 HP must be sheltered from light to retain PTSA tracer. If PTSA degrades, the concentration can still be monitored via other methods. Contact Cortec® Technical Service for more information.



LIMITED WARRANTY

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4119 White Bear Parkway, St. Paul, MN 55110 USA
Phone (651) 429-1100, Fax (651) 429-1122
Toll Free (800) 4-CORTEC
productinfo@cortecvci.com
https://www.cortecvci.com
https://www.cortecwatertreatment.com

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Distributed by:



Valdamark Limited
Unit 13,
30 The Downs
Altrincham, Cheshire, WP14 2PX,
United Kingdom.
valdamark@live.com
Tel: +44 (0) 161 706 0388

