



VpCI® FORMULATED PRODUCTS FOR PROCESS INDUSTRIES

VpCI®-658



PRODUCT DESCRIPTION

VpCI®-658 is a solvent-based, injectable corrosion inhibitor for protection against corrosion under insulation (CUI). VpCI®-658 combats corrosion caused by moisture and other corrosive media that enter insulation after water barrier wraps or jackets are compromised or when condensation builds up beneath the insulation. Moisture trapped between insulation and metal surfaces, such as piping, encourages corrosion that may go undetected for long periods of time. This can cause serious maintenance and repair costs and potentially dangerous leaks.

Applying VpCI®-658 provides long-lasting benefits such as decreased maintenance costs, reduced downtime for repair and replacement, and an overall increase in safety by preventing catastrophic failures related to corrosion. Vapor phase Corrosion Inhibitors in the product enable VpCI®-658 to be injected into existing insulation and allowed to migrate through the insulation to protect metal surfaces below.

FEATURES

- Vapor phase Corrosion Inhibitors migrate throughout insulation to protect insulated metal surfaces from corrosion
- Protects in wet and dry cycles
- Long lasting

BENEFITS

- Inhibits CUI on pipes and other insulated metal surfaces
- Reduces frequency of maintenance and repair related to CUI
- Increases overall plant safety by reducing dangerous corrosion-related failures

APPLICATION

VpCI®-658 should be injected beneath the existing insulation at a rate of 0.3 fluid ounces per cubic foot (0.3 liters per cubic meter) of insulation volume. Injection points should be spaced every 10-20 feet (3-6 meters) to allow proper dispersion and application of the product. Do not use on pipes that will exceed 338 °F (170 °C).

METALS PROTECTED

- Carbon Steel
- Copper
- Brass

TYPICAL PROPERTIES

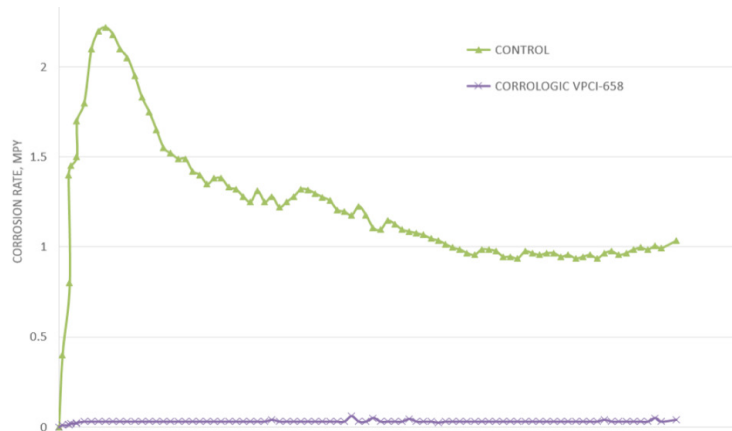
Visual	Clear, pale yellow liquid
Non-Volatile Content	8%
Density	6.7 lb/gal (0.79 kg/L)

STORAGE AND PACKAGING

VpCI®-658 is available in 5 gallon (19 liter) plastic pails, 55 gallon (208 liter) metal drums, liquid totes, and bulk. Shelf life: 24 months at 75 °F (24 °C).

TEST RESULTS

Corrosion Rate of CUI samples using ER Flush 10 Probes



ER (electrical resistance) probe corrosion readings over 4000 hours of testing.



Pipe surfaces after 210 days of corrosion testing. VpCI®-658 was applied to the bottom pipe.

Test results taken from "Protection of Corrosion under Insulation using Vapor Phase Corrosion Inhibitors, VpCI®-658," prepared for CORTEC® Corporation by Dr. Behzad Bavarian, Yashar Ikder, Babak Samimi, and Lisa Reiner; Dept. of Manufacturing Systems Engineering & Management, College of Engineering and Computer Science, California State University, Northridge, USA 91330; April 2015.

<https://www.cortecvci.com/Publications/Papers/Corrologic-VpCI-658-inhibitor-effects-on-CUI-final-report.pdf>

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CONSULT SAFETY DATA SHEET FOR MORE INFORMATION

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