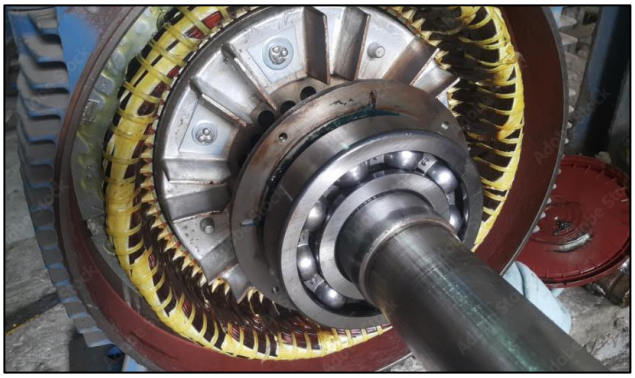
Editorial Contact: Ana Juraga ana.juraga@ecocortec.hr
Cortec® Europe Advertising Agency + 385 (0) 1 4854 486

Company Contact: Ivana Radic Borsic iborsic@cortecvci.com
Cortec® Corporation: + 385(0)31 705 011

Attention: Editor
February 01, 2024
PRESS RELEASE

VpCI®-379 – Save Labor, Eliminate Oily Mess with Safe, Water-Based Rust Preventative!

Taking a sustainable approach to fighting corrosion and extending the life of metal surfaces and equipment parts is the main mission of Cortec® Corporation. Unlike traditional rust preventatives that rely on petroleum, Cortec® water-based alternatives are globally known as more environmentally responsible options that improve worker experience. Cortec's goal is to create corrosion protection solutions that are safe, effective, and—equally important—economical wherever possible. VpCI®-379 is a cost-effective, water-based corrosion inhibitor liquid concentrate from Cortec® Corporation. It was specially designed by Cortec's engineers to comply with strict anti-pollution standards and be easy to apply. Using this product will result in significant labor savings and improved safety and pollution control. VpCI®-379 is engineered for multi-metal corrosion protection in sheltered areas, such as indoors or within containers shielded from direct exposure to rain and outdoor elements. Its vapor phase functionality enables some migration to areas susceptible to



humidity and corrosive agents when used within an enclosed space.

VpCI®-379 provides strong protection to uncoated surfaces and is designed as a complete replacement for hazardous oil-based rust preventives. The wide dilution range (between 5% and 50%) allows flexibility to enable significant cost savings and customize the length of protection required. It provides superior protection against humidity and eliminates cleaning and housekeeping problems associated with oils.

VpCI®-379 forms a clear and dry film which renders an attractive appearance on protected parts. The product will become dry-to-touch in ambient conditions 30 minutes after application. VpCI®-379 leaves a hydrophobic protective layer on metal surfaces and is easy to remove with conventional alkaline cleaners, if necessary. It also may be painted over with some common paints and primers without removal.

TYPICAL APPLICATIONS

- **Castings, forgings, tubular parts, machined /honed metal components**
- **Gears, pumps, electric motors, housings, textile and printing equipment**
- **Precision machined parts; structural steel; sintered metals, bars, and roll stock**
- **Additive to parts washers and rinse water systems, hydro blasting, hydrotesting**

CASE HISTORY

A local division of a large equipment manufacturer was struggling with corrosion from running test water through its new locomotive engine cooling systems. They needed to protect the cooling systems from corrosion during outdoor storage between different stages in the manufacturing process and later during shipping. The manufacturer also needed to keep any residual water from freezing inside the system.

Another division of the same company had successfully used the product to solve corrosion problems in its large engine cooling water systems and VpCI®-379 had made its way into the company's specifications. Based upon this previous success, the local division began using VpCI®-379, as well. A solution of 20% VpCI®-379, 20% glycol (to prevent freezing), and 60% water was circulated through the engine cooling systems, captured, tested to ensure proper concentration, and reused. VpCI®-379 was chosen because of its effectiveness. In addition to the product's previous success, the adoption of VpCI®-379 for this particular application also showed that it is possible to use a water-based rust preventative in freezing outdoor temperatures if proper precautions are taken.

VpCI®-379 is listed under National Stock Number NSN 8030-01-481-8928 for ordering and use in aerospace and defense industries. It has been tested in accordance with ASTM D 1748, ASTM D 1735, and DIN 50017 and is RoHS compliant.

Keywords: water based rust preventatives, corrosion inhibitor, Cortec, VpCI, corrosion protection, rust preventative cost savings, locomotive engine testing, cooling system corrosion, prevent rust preventatives from freezing, corrosion problems