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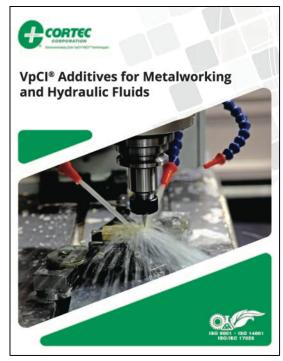




Cortec® VpCI® Additives Brochure Offers Customized Corrosion Protection for Metalworking and Hydraulic Fluids!

Cortec's "VpCI® Additives for Metalworking and Hydraulic Fluids" brochure offers a variety of additives for use with oil, water-based, and synthetic metalworking and hydraulic fluids. These additives protect metal pieces from flash corrosion during the metalworking process, while also providing protection to the cutting and machining equipment. Other additives can be used for preserving important hydraulic equipment from corrosion during shipping or storage.

A unique advantage of many Cortec® additives is their vapor phase corrosion protection for metals in void spaces above the lubricant. When introduced to a void space, VpCI® molecules in these additives vaporize and diffuse throughout the



enclosure and adsorb on metal surfaces. This thin molecular hydrophobic layer protects the metal against corrosive elements such as oxygen, moisture, and chlorides.

Incorporating corrosion inhibitors directly into metalworking and hydraulic fluids enhances corrosion protection and streamlines the process to avoid significant economic losses from corrosion damage. Benefits from Cortec's VpCI® additives for metalworking and hydraulic fluids portfolio include:

- Low dosage of additives for economical treatment
- Protection of cutting and metalworking equipment
- Flash rust and long-term multi-metal protection options
- WIP protection
- Compatibility with most biocides
- Protection available in contact phase, vapor phase, and interphase
- Excellent suitability for subsea hydraulic systems and hydraulic equipment layup

The brochure provides a handy selection guide introducing each additive with a brief description, followed by a chart where users can narrow down their additive choice based on the following attributes:

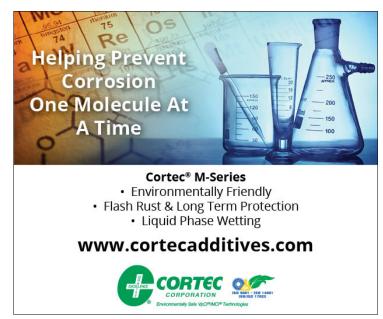
- Metals protected
- Additive physical state
- Transport mechanism (contact and/or vapor phase protection)
- Solubility
- Degree of protection (flash and long term)
- Typical application
- Typical dosage





Many of the additives are compatible with yellow metals. VpCI® additives for a full range of water, glycol, oil, solvent, and synthetic fluids are also available. Some special application options include

subsea hydraulic systems, automotive coolants, and gearboxes. In each of these potentially corrosive environments, the choice of a VpCI® additive helps formulators streamline the protection process by incorporating VpCI® corrosion inhibitors directly into the metalworking and hydraulic "VpCI® fluids. The Additives for Fluids" Metalworking and Hydraulic brochure is a helpful guide to start making that customized choice.



To read this brochure, please visit:

http://cortecadditives.com/wp-content/uploads/2018/06/VpCI_Additives_Metalworking_Hydraulic.pdf

For more information about Cortec's innovative additives products, please visit: http://cortecadditives.com/

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Cortec[®] Corporation is the global leader in innovative, environmentally responsible VpCI[®] and MCI[®] corrosion control technologies for Packaging, Metalworking, Construction, Electronics, Water Treatment, Oil & Gas, and other industries. Our relentless dedication to sustainability, quality, service, and support is unmatched in the industry. Headquartered in St. Paul, Minnesota, Cortec[®] manufactures over 400 products distributed worldwide. ISO 9001, ISO 14001:2004, & ISO 17025 Certified. Cortec Website: http://www.cortecvci.com Phone: 1-800-426-7832 FAX: (651) 429-1122