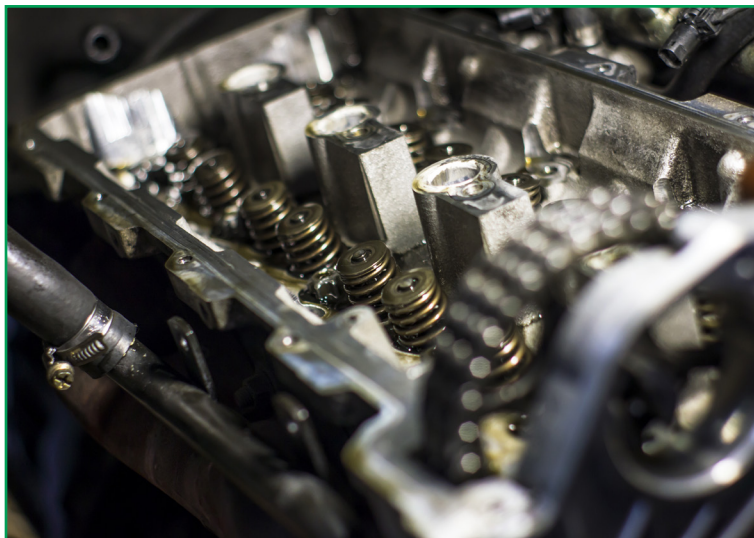


VpCI® METALWORKING PRODUCTS



VpCI®-329



PRODUCT DESCRIPTION

VpCI®-329 is an oil-based vapor corrosion inhibiting concentrate for use with lubricating, hydraulic, and preservation oils, and provides excellent protection in sheltered outdoor/indoor conditions. VpCI®-329 protects in two unique ways by offering a tenacious film, which clings to metal surfaces as well as vapor phase inhibitors into the air above the oil. The vapors condense and form a protective barrier on metal surfaces that are not in contact with the oil. This combination allows complete protection to internal system parts.

FEATURES

- Contains no hazardous chromates, nitrites, or phosphate inhibitors
- High flash and fire points
- Protects ferrous metals, zinc, galvanized steel, aluminum, copper, and brass.
- Compatible with most oils
- Can be fogged into metal compartments
- Parts can be dipped and stored
- VpCI®-329 provides good salt spray resistance
- NATO #6850-66-132-6100 / NSN #6850-01-470-3359
- VpCI®-329 is commercial equivalent to MIL-PRF-46002C (Grade 1)

METHOD OF APPLICATION

Short-term protection: One part VpCI®-329 to 19 parts oil.

Medium-term protection: One part VpCI®-329 to 9 parts oil.

Long-term protection: One part VpCI®-329 to 4 parts oil.

Storing metal parts: Spray, dip, or brush VpCI®-329 onto metal parts before storage.

Storage for lubricating, hydraulic, and metal cutting systems: Add Cortec® VpCI®-329 to oil in engines before storage. For best results, add VpCI®-329 to the oil, then cycle or run the engine for 10 minutes before shutdown.

TYPICAL PROPERTIES

Oil Characteristics	Typical Values	
Appearance	Opaque Tan Color	
Specific Gravity	0.91	
Viscosity (ASTM D92)	40 °C	51.4 cSt
	100 °C	8.1 cSt
	Index	129
Pour Point (ASTM D6749)	-37 °C (-35 °F)	
Flash Point (ASTM D92)	164 °C (326 °F)	
Fire Point (ASTM D92)	164 °C (328 °F)	
Total Acid Number (ASTM D974)	mg KOH/g	26.9
Oil Separability (ASTM D1401) @ 82°C (180°F)	Oil, ml	0
	Water, ml	0
	Emulsion, ml	80
	Time, min	60
Foaming Characteristics (ASTM D892)	Seq. I	365/290/600+
	Seq. II	435/350/600+
	Seq. III	340/260/600+

Properties listed above are typical of those obtained through normal production and do not constitute a specification. VpCI®-329 is generally soluble in hydrocarbon based fluids, however compatibility and solubility should be verified prior to use. Please contact Cortec® Technical Service for more information.



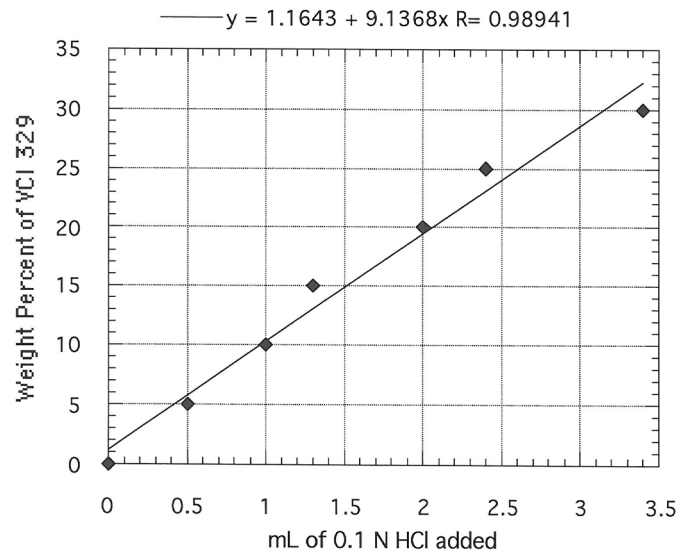
STANDARD TEST METHODS

ASTM D-1748	Humidity Cabinet	600+ Hours
ASTM B117	Salt Spray	100 Hours

PACKAGING AND STORAGE

VpCl®-329 is packaged in 5 gallon (19 liter) plastic pails, 55 gallon (208 liter) metal drums, totes, and bulk. The product should be sealed before storage. Agitate before each use. The shelf life of VpCl®-329 is up to 24 months.

VCI 329 Determination of Concentration by Titration



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

LIMITED WARRANTY

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