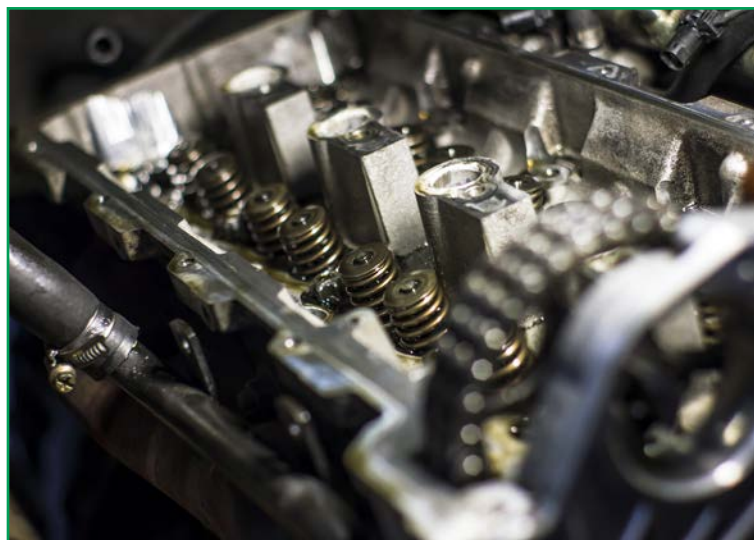


VpCI® METALWORKING PRODUCTS

# VpCI®-329 / VpCI®-329 UV



## PRODUCT DESCRIPTION

VpCI®-329 is an oil-based vapor corrosion inhibiting concentrate for use with lubricating, hydraulic, and preservation oils. It 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, and 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 structure of parts.

VpCI®-329 also comes with a UV tracer, as VpCI®-329 UV. VpCI®-329 UV shows a bright blue color under UV light (black light), making quality assurance and inspection of rust preventative particularly convenient.

## FEATURES

- Contains no hazardous chromates, nitrites, or phosphate inhibitors
- Protects ferrous metals, zinc, galvanized steel, aluminum, copper, brass, cadmium, and silver
- Zinc-free
- Compatible with most mineral oils and PAO based fluids
- Can be fogged into metal compartments
- Parts can be dipped and stored
- NATO #6850-66-132-6100 / NSN #6850-01-470-3359

## METHOD OF APPLICATION

**Short-term protection:** One part VpCI®-329 to 20 parts oil.

**Medium-term protection:** One part VpCI®-329 to 10 parts oil.

**Long-term protection:** One part VpCI®-329 to 5 parts oil.

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

• Same for VpCI®-329 UV.

**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. After storage, the engine can be normally operated.

## 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)		163 °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

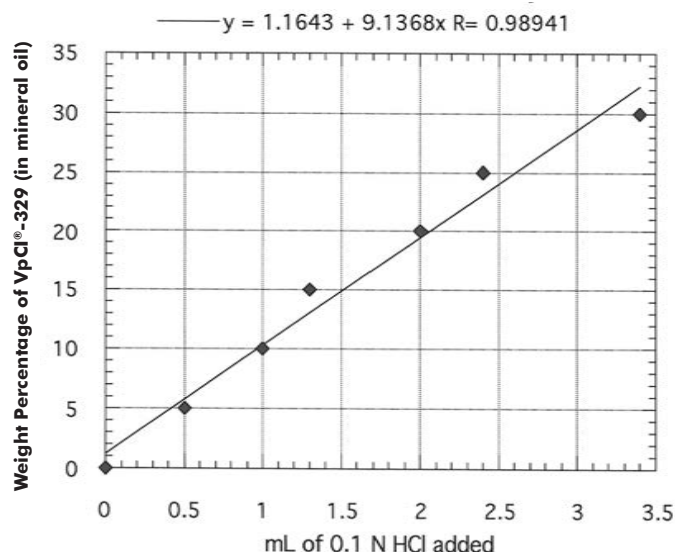
ASTM D-97	Pour Point
ASTM D-130	Copper Strip Corrosion Test
ASTM D-665	Rust Preventing Characteristics
ASTM D-974	Acid/Base Number by Titration
ASTM D-1401	Water Separability Testing
ASTM D-1735	Water Fog Cabinet
ASTM D-1748	Humidity Cabinet
ASTM B-117	Salt Fog
MIL-PRF-46002	Contact and Volatile Corrosion Inhibited Oil
MIL-PRF-85062	VCI Oil for Transmission and Gearbox
NACE RP0487-2000	Selection of Rust Preventives

## PACKAGING AND STORAGE

VpCI®-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 VpCI®-329 is up to 24 months.

## VpCI®-329

### Determination of Concentration by Titration



• Same for VpCI®-329 UV.

**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

All statements, technical information and recommendations contained herein are based on tests Cortec® Corporation believes to be reliable, but the accuracy or completeness thereof is not guaranteed.

Cortec® Corporation warrants Cortec® products will be free from defects when shipped to customer. Cortec® Corporation's obligation under this warranty shall be limited to replacement of product that proves to be defective. To obtain replacement product under this warranty, the customer must notify Cortec® Corporation of the claimed defect within six months after shipment of product to customer. All freight charges for replacement products shall be paid by customer.

Cortec® Corporation shall have no liability for any injury, loss or damage arising out of the use of or the inability to use the products.  
BEFORE USING, USER SHALL DETERMINE THE SUITABILITY OF THE PRODUCT FOR ITS INTENDED USE.

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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, E-mail [info@cortecvci.com](mailto:info@cortecvci.com)  
<http://www.cortecvci.com>

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+44 (0)1724 851678



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