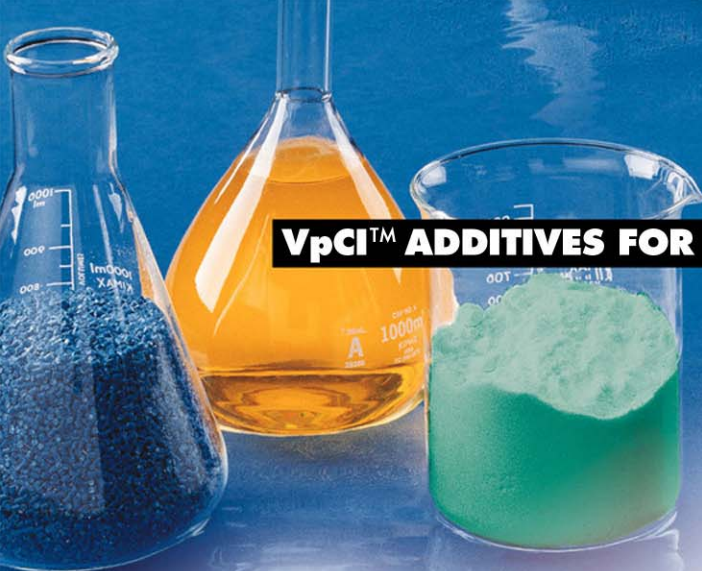




# VpCI™ ADDITIVES FOR COATINGS, FLUIDS, ADHESIVES AND PLASTICS



## M-528/528L



- Non-hazardous, environmentally friendly
- M-528 is in compliance with HOCNF (Harmonized Offshore Chemical Notification Format) environmental requirements

### TYPICAL PROPERTIES

Appearance	Clear yellowish to amber liquid
pH	9-10.5 (1% un water)
Density	8.5-8.6 lb/gal (1.02-1.03 kg/l)
Non-volatile (weight)	65-80%

### APPLICATIONS

- Hydraulic fluids used in subsea production control systems
- Synthetic coolants and cutting fluids
- Industrial cooling towers
- Water based lubricants
- Aerosol formulations
- Alkaline metal cleaners
- Radiator fluid additive

### PRODUCT DESCRIPTION

M-528/528L are the additives for hydraulic fluids used in subsea production control systems.

They provide corrosion protection for steel, copper, brass, aluminum, bronze, galvanized steel, and other ferrous and non-ferrous metals and their alloys. M-528/528L prevent corrosion in both phases: contact and vapor.

### FEATURES

- Stable in aqueous systems at pH of 6 or above
- Soluble in water, glycols and alcohols; insoluble in hydrocarbon-based solvents; dispersible in oils
- Non-phenolic
- Seawater compatible
- Thermostable
- Was evaluated with good results in Ethylene Glycol/water blend according to IP287 with and without seawater addition
- Falex test data show that antiwear properties of Ethylene glycol/water based fluid containing M-528L are excellent
- Biodegradable

### TEST RESULTS\*

Test Performed		Results
IP287	a. Liquid corrosion test on neat fluid	No Corrosion
	b. with 10% of seawater	No Corrosion
	c. with 2.5% of seawater	No Corrosion
IP125: Vapor phase corrosion test		Pass
10% by volume seawater contamination		Clear Fluid
Stability at	Room temperature	Clear Stable
	70C	Clear Stable
	-20C	Clear Stable

\*All test were performed in the solution Ethylene Glycol/water = 40:50 with added 10% of M-528 or M-528 L



**Falex Lubricant Testing**  
**Ethylene Glycol/water 40:50 with 10% of M-528L**

<b>Load (lb) at (min)</b>	<b>Torque values (lb.in)</b>
100(1)	6.3
200(1)	10.7
300(1)	13.3
400(1)	17.8
500(1)	21.3
500(30)	18.2
Number of tests	6
% Weight loss on pin	0.058%

**STORAGE and PACKAGING**

M-528/528L are packaged in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes and bulk.

These products should be stored sealed in a heated warehouse to avoid freezing. M-528/528L have a shelf life of 24 months.

**FOR INDUSTRIAL USE ONLY**

**KEEP OUT OF REACH OF CHILDREN**

**KEEP CONTAINER TIGHTLY CLOSED**

**NOT FOR INTERNAL CONSUMPTION**

**CONSULT MATERIAL 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, AND USER ASSUMES ALL RISK AND LIABILITY WHATSOEVER IN CONNECTION THEREWITH.** No representation or recommendation not contained herein shall have any force or effect unless in a written document signed by an officer of Cortec Corporation.

**THE FOREGOING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED OR STATUTORY, INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. IN NO CASE SHALL CORTEC CORPORATION BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.**



Distributed by:

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)  
Internet <http://www.cortecvci.com>

printed on recycled paper  10% post consumer

Revised 7/12/06 Cortec Corporation 2006. All rights reserved. Supersedes: none  
© 2006, Cortec Corporation. All Rights Reserved. Copying of these materials in any form without the written authorization of Cortec Corporation is strictly prohibited.