



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



## VpCI Coolant Antifreeze



### PRODUCT DESCRIPTION

VpCI Coolant Antifreeze is a corrosion inhibiting heat transfer fluid featuring the wide range of use temperatures. This fluid is specifically formulated with inhibitor package to offer thermostability and vapor phase multimetal corrosion protection. The range of working temperature is from -60F (-50 C) to 280 F (140C), depending on dilution rate with water.

### FEATURES

- Protects ferrous and non-ferrous metals from corrosion and pitting
- Nitrite, chromate, and heavy metal silicate free
- Contains contact and vapor phase corrosion inhibitors
- Economical
- Environmentally acceptable
- Thermally stable over a wide range of temperatures

### PHYSICAL PROPERTIES

Appearance	Clear yellow liquid
pH	8.0-9.0 (50% in water)
Non-volatile Content	95-99%
Solubility in Water	100%
Density	9.4-9.5 lb/gal(1.13-1.14 kg/l)
Reserved alkalinity	15-17 ml

### TEST DATA

ASTM D-1384-87 (Standard Test Method for Engine Coolant in Glassware) for engine antifreeze/coolants.

#### Weight Loss per Specimen (mg)

	Copper	Brass	Solder
33% VpCI Coolant Antifreeze in corrosive water	6-8	1-2	8-9
ASTM D-3306 Requirements	≤10	≤10	≤30
GM 1899 M Requirements	≤10	≤10	≤20
GM 1825 M Requirements	≤10	≤10	≤20

  

	Carbon Steel	Cast Iron	Aluminum
33% VpCI Coolant Antifreeze in corrosive water	1-2	6-10	8-12
ASTM D-3306 Requirements	≤10	≤10	≤30
GM 1899 M Requirements	≤10	≤10	≤20
GM 1825 M Requirements	≤10	≤10	≤20



**CORTEC**  
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Environmentally Safe VpCI®/MCI® Technologies

## TYPICAL APPLICATIONS

Thermally demanding application and where long fluid life and extended maintenance intervals are desired. Also, suitable for single fluid process heating and cooling. VpCI Coolant Antifreeze can be diluted with deionized or distilled water according to the required working temperature range.

Contact Cortec for more information and assistance.

## PACKAGING AND STORAGE

VpCI Coolant Antifreeze is packaged in 5 gallon (19 liter) plastic pails, 55 gallon (208 liter) steel drums, liquid totes and bulk. It should be stored in a tightly closed container. The shelf life is 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**

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