



# VpCI®-378



## PRODUCT DESCRIPTION

VpCI-378 is a water-based concentrate designed as a complete replacement for oil-based corrosion preventives. VpCI-378 forms a brown emulsion in water and is applied to metal surfaces by spraying or dipping. The wide dilution range with water allows flexibility to customize the length of protection required vs. applied cost. The protective coating is also translucent and in ambient conditions becomes dry-to-touch 30 minutes from application. VpCI-378 is designed to be removed with Cortec® VpCI-414 or other conventional alkaline cleaners.

VpCI-378 is designed to protect ferrous and non-ferrous metals in sheltered areas, indoors, or in packaging with no direct exposure to rain or outdoor elements. In many operations, removal is not necessary since coatings or paints can be applied directly over treated surfaces at dilutions over 1:15.

## FEATURES

- Forms clear and dry film, which renders attractive appearance to protected parts
- Heat stable
- Displaces water from metal surfaces
- Easy to remove if necessary
- Eliminates cleaning and housekeeping problems associated with oils
- Superior protection and complete replacement for rust inhibiting oils
- Emulsifiable, thus environmentally acceptable and safe to apply
- Unique vapor phase action protects uncoated and difficult-to-reach areas
- Economical - can be diluted up to 1 part VpCI-378 to 20 parts water
- User friendly
- Lubricating properties
- Temperature stable to approximately 210°F (99°C) once diluted.

## METALS PROTECTED

- Carbon steel
- Stainless steel
- Cast iron
- Aluminum
- Copper and alloys

## TYPICAL APPLICATIONS

- Castings, forgings, tubular parts, machined, and honed metal components
- Gears, pumps, electric motors, housings, textile, and printing equipment
- Precision machined parts, structural steel, sintered metals, bars, and roll stock
- Additive to parts washers and rinse water systems, hydroblasting, and hydrotesting
- Use as a quenching fluid or in dipping applications operating at elevated temperatures



## PRODUCT PREPARATION

Add VpCI-378 to water as follows:

### *Short-term protection (1-6 months):*

1 part concentrate to 10-20 parts water

### *Medium-term protection (6-12 months):*

1 part concentrate to 6-10 parts water

### *Long-term protection (up to 2 years):*

1 part concentrate to 1-5 parts water

## TYPICAL PROPERTIES

Appearance	Brown viscous liquid
Corrosion Resistance	Up to 24 months
Drying Time	30-60 minutes
Film Type	Dry, clear
Flash Point	>200°F (>93°C), TCC
Odor	Mild
pH	9.8-10.7 (Neat)
Density	8.0-8.3 lb/gal (0.95-0.99 kg/l)
Non-volatile Content	21-26%

## PACKAGING AND STORAGE

VpCI-378 is available in 5 gallon (19 liter) pails, 55 gallon (208 liter) drums, liquid totes, and bulk. The product should be stored sealed in a heated warehouse to avoid freezing. VpCI-378 has 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 SAFETY DATA SHEET FOR MORE**

**INFORMATION**

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printed on recycled paper  100% post consumer

Revised: 1/16/14. Cortec Corporation 1998-2014. Supersedes: 2/22/11.

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