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

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.

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