



VCI FORMULATED PRODUCTS FOR PROCESS INDUSTRIES

gas oil
brine

VCI-644

PRODUCT DESCRIPTION

VCI-644 is an additive that protects ferrous and non-ferrous metals from corrosion induced by waters containing inorganic salts, including chlorides. A concentrated formulation, VCI-644 offers low dosage effectiveness as a treatment for a wide variety of marine and process applications requiring economical corrosion inhibition for fresh water, salt water and brine solutions. VCI-644 contains organic ingredients and has strong film persistency abilities. VCI-644 is effective as a replacement for hydrazine-based formulations or formulations containing nitrites, phosphates, chromates or other heavy metals.

VCI-644 does not contain nitrites, phosphates, hydrazine, chromates or other heavy metals.

FEATURES

- Prevents corrosion from fresh and salt water, brine, chloride and other dissolved halogens of ferrous and non-ferrous metals.
- Nitrite/chromate/zinc/phosphate-free.
- Low concentration effectiveness provides economical treatment.
- Residual protection after hydrotest solution is drained out is 1 to 2 months.
- Effective in temperatures up to 200°F (98°C) in liquid and vapor phases.

TYPICAL APPLICATIONS

Cooling/Heating Systems:

Add VCI-644 at a concentration level of 0.1-0.25% by weight to brine, containing 3-5% of chlorides and other aggressive inorganic salts. Protection in liquid and vapor phases is greater than 95%.

Hydrotesting with Sea Water:

VCI-644 provides protection greater than 95% when added at a concentration level of 0.05-0.10% by weight.

TYPICAL PROPERTIES

Appearance	Clear dark brown liquid
Solubility/Water	100%
pH	9.5-10.5 (1% solution)
Density	8.4-8.5 lb/gal (1.01-1.02 kg/l)
Non-volatile Content	27-32%

PACKAGING AND STORAGE

VCI-644 is packaged in 5 gallon (19 liter) containers, 55 gallon (208 liter) metal drums, liquid totes or bulk. Product should be stored in a tightly closed container. Shelf life is 12 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

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