M-640 Powder



PRODUCT DESCRIPTION

M-640 is a corrosion inhibiting additive for water and glycol-based heat exchange fluids. It protects ferrous and non-ferrous metals from corrosive contaminants. This product is an excellent replacement for phosphate/nitrite-based/amine compounds. M-640 is based on an organic-inorganic formulation designed for low level concentrations in field applications. M-640 contains a unique combination of contact and vapor phase corrosion inhibitors that provides corrosion protection even in partially filled spaces.

FEATURES

- Protects ferrous and non-ferrous metals from corrosion and pitting
- Nitrite, chromate, and heavy metal free
- Contains contact and vapor phase corrosion inhibitors
- Economical
- Use in low dosages
- Environmentally acceptable

PHYSICAL PROPERTIES

Appearance White powder

pH 11.5-12.8 (1% solution)

Non-volatile Content 99.5-100%

TEST DATA

ASTM D-1384-87 (Standard Test Method for Engine Coolant in Glassware) for engine antifreeze/coolants treated with M-640:

Weight	Loss	per	<u>Specimen</u>	(mg)

Additive	Copper	Brass	Solder
0.5% M-640	6-9	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

Additive	Carbon Steel	Cast Iron	Aluminum
0.5% M-640	1-2	4-6	1-2
ASTM D-3306 Requirements	10	10	30
GM 1899 M Requirements	10	10	20
GM 1825 M Requirements	10	20	ŚŚ

TYPICAL APPLICATIONS

M-640 is an additive for antifreeze/coolant fluids to replace nitrites, phosphates, amines, and other types of restricted corrosion inhibitors.

The final concentration range for M-640 under operating conditions is 0.5-0.8% by weight.

PACKAGING AND STORAGE

M-640 is available in 100 pound (45 kg) polyethylene lined drums. Store in a sealed container in a dry warehouse, avoiding direct exposure to sunlight, with temperatures not exceeding 150°F (66°C). Under these conditions, shelf life is up to 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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