



M-640 L



PRODUCT DESCRIPTION

M-640 L is a liquid 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 silicates and phosphate/nitrite-based/amine compounds. M-640 L is based on an organic-inorganic formulation designed for low level concentrations in field applications. M-640 L contains a unique combination of contact and vapor phase corrosion inhibitors that provide corrosion protection even in partially filled spaces.

FEATURES

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

PHYSICAL PROPERTIES

Appearance	Clear yellow liquid
pH	8.8-9.3 (1% solution)
Non-volatile Content	57-67%
Solubility in Water	100%
Density	9.2-9.3 lb/gal(1.10-1.11 kg/l)

TEST DATA

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

Weight Loss per Specimen (mg)

Additive	Copper	Brass	Solder
2.5% M-640 L	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

Additive	Carbon Steel	Cast Iron	Aluminum
2.5% M-640 L	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

TYPICAL APPLICATIONS

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

The final concentration range for M-640 L under operating conditions is 2.0-2.5% by weight.

PACKAGING AND STORAGE

M-640 L 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 SAFETY DATA SHEET FOR MORE
INFORMATION

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