

# REFRIGERATION OIL 3



LUBRICATION



TOTAL

Semi-synthetic high-performance refrigeration oil

## APPLICATIONS

**Ammonia refrigerant compressor service**

**REFRIGERATION OIL 3** is a semisynthetic blend made with hydrocracked base oil technology to control volatility, degradation and deposits. It is additized to extend service life in ammonia refrigerant service. It is designed to lubricate reciprocating and rotary refrigerant compressors for ammonia.

**REFRIGERATION OIL 3** may also be used for refrigeration applications calling for Frick #3 oil, or synthetic blend oils where improved performance is needed. May be used with evaporator temperatures down to -36 C.

## SPECIFICATIONS

DIN 51 503 Class KA

ISO 6743-3B-L-DRA

Recommended for the following OEMs calling for synthetic blend oils:

CARRIER, COPELAND, FRICK, TRANE, YORK

## ADVANTAGES

**Cleanliness and high compressor performance improves efficiency of heat exchangers**

- Good chemical and physical stability and low volatility reduces oil consumption
- Excellent oxidation and corrosion resistance reduces black sludge formation
- High viscosity index with good lubricity
- Excellent performance in ammonia refrigeration systems
- Very low pour point to prevent congealing in refrigerant lines or evaporator

TYPICAL CHARACTERISTICS—REFRIGERATION OIL 3	
ISO grade	Apx. 68
Color, (ASTM D 1500)	L0.5
Specific gravity 60/60 °F (ASTM D 1298)	0.916
Viscosity @ 40°C, cSt (ASTM D 445)	60
Viscosity @ 100°C, cSt (ASTM D 445)	8.1
Viscosity index (ASTM D 2272)	108
Pour point, °F (°C) (ASTM D 97)	-45 (-43)
Flash point °F (°C) (ASTM D 92)	520 (236)
Solubility in ammonia @ 50°C	1.9%
Oil volatility, wt % loss (22 hours @ 100°C)	0.1%

TOTAL Lubricants USA, Inc.

400 Chisholm Place, Suite 418,  
Plano, Texas 75075  
800-442-5823 or 469-241-0950  
www.total-us.com

**Refrigeration Oil 3**  
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5 North Stiles Street  
Linden, NJ 07036  
908.862.9300 or 800.526.4127  
www.total-us.com

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