

MOTOROL REFRIN S

SYNTHETIC REFRIGERATION OIL

Introduction:

Motorol Refrin S grades of Refrigeration Compressor Oils are formulated from totally synthetic polyolester base stocks. These are blended mainly for use in refrigeration and air-conditioning systems using environmentally friendly (HFC) refrigerants.

Applications:

Motorol Refrin S grades are recommended for use in open-, semi-open and hermetic compressors in domestic, commercial and industrial refrigeration and air-conditioning system using hydrofluorocarbon (HFC) refrigerants— ozone friendly refrigerants like R-134A, R404A, R407A, R507, R23 etc... It can be used in both rotary and reciprocating compressor types.
Refrin S 32, 46, 68 for Reciprocating / Piston compressors.
Refrin S 68, 100, 150, 220 for Screw / centrifugal compressors.

Advantages:

- ◆ Excellent lubricity.
- ◆ Good oxidation and chemical stability.
- ◆ Miscible in alternative refrigerants like R-134a and other chlorine free HFC refrigerants at low temperatures
- ◆ Excellent low temperature fluidity
- ◆ Very high thermal and hydrolytic stability.

Performance Standard: Meets DIN 51503 KD, ISO 6743-3 2003 DRD

Typical Specifications:

Characteristics	S 32	S 46	S 68	S 100	S 220
Appearance, Visual	Clear, bright and free from sediments and other impurities				
Color, Max	0.5	0.5	0.5	0.5	0.5
Density @ 15 °C (g/ml)	0.985	0.954	0.954	0.955	1.02
Flash Point (°C), Min	250	250	254	260	265
Pour Point (°C), Max	(-)54	(-)50	(-)48	(-)27	(-)27
Viscosity at 40°C (cSt)	28-35	41-51	61-75	95 -105	230
Viscosity at 100°C (cSt)	5.7	7.25	9.1	11.2	23
Viscosity Index	127	119	109	94	124
Acid Number (mg KOH/g)	0.02	0.02	0.02	0.05	0.05
Water Content (mg/kg)	<50	<50	<50	<50	<100

Environment, Health & Safety:

Every care has been taken to ensure the accuracy of the information in this PDS. This however may be affected by subsequent improvement in product (R&D). MSDS is available for all MOTOROL products on request. MOTOROL products are unlikely to present any health and safety hazard with proper use for the correct application and maintain proper personal hygiene. Do not spill oils on the shop floor, discharge into drains, ground or water sources.