



Coolfine S are synthesized hydrocarbon-alkylate 100 percent full-synthetic formulation for reciprocating, rotary, and centrifugal refrigeration compressors.

This product is extremely stable at higher compression temperatures while providing excellent low temperature properties at low evaporator temperatures.

Performance and cost benefits include: Reduced and easier oil draining from the plant; Reduced oil consumption- Up to 70 percent less vs. mineral oils; Reduced deposit formation & low foaming tendency; Excellent seal, paint & plastic compatibility; Extended lubricant service life- Up to 5 times longer vs. mineral oils; Chemically stable in the presence of normal levels of water and air; Extended lubricant service life vs. mineral oils.

- ◆ Excellent chemical stability: resists reaction with refrigerants.
- ◆ High thermal stability, for long life.
- ◆ Very Low floc point: withstands low evaporation temperatures without wax precipitation.
- ◆ High dielectric strength: exceptionally low moisture content.
- ◆ Completely miscible with oils, in any proportion.
- ◆ Outstanding thermal oxidation stability, preventing oil from damage in high temperature condition
- ◆ Applied temperature range: -50°C~170°C, possibly reaching 170°C in short time

- ◆ Good material adaptability, preventing oil from leaking out of system in application
- ◆ Excellent low temperature performance, extremely low pour point, low flocculation point of Freon, no wax formed but perfect fluidity under low temperature, ensuring application of system under various low temperature conditions
- ◆ Outstanding high/low temperature performance, ensuring normal operation of system in wide temperature range
- ◆ Good lubricity, protecting refrigeration compressor from wear
- ◆ Outstanding over-all performance, ensuring long term normal operation of refrigeration system

Performance

The product meets the following specifications:

- ◆ Q/SH303 177-2004 (2007)
- ◆ ISO-L-DAH, Atlas Copco for use in their GA, GR, XR and SRH machines
Stahl Refrigeration Oil Type B
- ◆ DIN 51506
- ◆ BS 2626: 1975
- ◆ Widely used to refrigeration system of multiple refrigerants (e.g., R11, R12, R22, R134A, R404A, R407C, etc) and ammonia, etc) major application compressors are of rotary screw, reciprocating and rotary vane types including refrigerator, freezer, air conditioner, automobile air conditioner, central air conditioner, refrigeration van, water chiller, and various refrigeration compressors such as enclosed, semi-enclosed or open types for refrigeratory



GRADE	Test Method	Units	COOLFINE S			
			32	46	68	100
Density @ 15°C	ASTM D1298	kg/l	0.82	0.86	0.87	0.88
Flash Point	ASTM D92	°C	210	213	220	234
Kin Viscosity @ 40°C	ASTM D445	cSt	15	29	54	100
Kin Viscosity @ 100°C	ASTM D445	cSt	3.2	46.2	56.1	98.5
Pour Point	ASTM D97	°C	-55	-52	-48	-42
Neutralization Value	ASTM D664	mgKOH/g	<0.05			
Insulation strength, kV			35			