



REF

PRODUCT DESCRIPTION:

REF refrigeration oils are premium quality naphthenic oils, blended for use in refrigeration compressors.

APPLICATION:

REF refrigeration oils are recommended for use in refrigeration compressors and other low-temperature applications, including air conditioning systems. They are recommended for other extremely low temperature applications requiring low temperature fluidity and floc points of -50°F or lower. Not recommended for use with hydrofluorocarbons (HFC) such as R-134A.

FEATURES & BENEFITS:

- Light color
- Low acid number
- Low pour and floc points
- Excellent foam resistance
- Good seal control
- Control stability and compatibility with refrigerants

PERFORMANCE LEVELS: Meets and Exceeds:

- DIN 51503 KAA, KC and KE
- Naphthenic oil without additives

TYPICAL PROPERTIES:

PARAMETERS	TEST METHOD	UNIT	REF			
			32	46	68	100
Grade			32	46	68	100
Refrigerator Oil Group	DIN - 51503	-	KAA, KC, KE			
Kinematic Viscosity @ 104 °F / 40 °C	ASTM D-7042	cSt	32	46	68	100
Kinematic Viscosity @ 212 °F / 100 °C	ASTM D-7042	cSt	4.6	5.6	7	8.8
Density @ 15 °C	ASTM D-1298	g/ml	0.892	0.897	0.902	0.906
Neutralization Value		mgKOH/g	<0.05	<0.05	<0.05	<0.05
SP. Gravity @15 °C / 60 °F	ASTM D-4052	g/cm ³	0.873	0.877	0.879	0.866
Flash Point (min)	ASTM D-92	°C	192	204	216	220
Pour Point (max)	ASTM D-97	°C	-24	-24	-21	-18

HEALTH & SAFETY, ENVIRONMENT:

Prolonged and repeated contact with oil may cause skin disorders. Avoid contact. Wash immediately with soap and water. Do not discharge used oil in to drains or the environment. Dispose to an authorized used oil collection point.

HEALTH & SAFETY:

This product is not likely to present any significant health or safety hazards when properly used in the recommended application and good standards of personal hygiene are maintained. Reference is made to the Safety Data Sheet (SDS) which is available on request via your local sales office.

PROTECT THE ENVIRONMENT:

Take used oil to an authorized collection point. Comply with local regulation. Do not discharge into drains, soil or water.

STORAGE:

We recommend to store all packages under cover. In case outside storage is unavoidable, drums should be laid horizontally to avoid the possible ingress of water and damage to drum markings. Products should never be stored above 60°C, exposed to hot sun or freezing conditions.

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