

Technical Data Sheet

OPTIMA THERMIC Fluid (MINERAL)

PRODUCT DESCRIPTION :

OPTIMA THERMIC Oils are mineral oil-type heat transfer oils for use in thermic systems with forced circulation

APPLICATION :

OPTIMA THERMIC Oils are recommended for use in thermic systems where fuel oil, gas, or electricity is used to heat a fluid, which then transfers the heat to the point of application. In closed, forced circulation systems equipped with expansion tanks, OPTIMA THERMIC Oil Grade 22 can be used with bulk oil temperatures up to 316°C (600°F) and skin temperatures up to 343°C(650°F) where good thermal stability and pumpability are required. Optimus Thermic Oil Grade 22 is also ideal where high thermic rates combine with high flow rates, and for systems where repeated heating and cooling cycles are required. In closed or open systems with forced circulation, OPTIMA THERMIC Oil Grade 46 can be used where bulk oil temperatures do not exceed 288°C (550°F) and skin temperatures may be as high as 316°C (600°F). The oil surface in contact with air in open systems should not exceed 107°C(225°F). Copper and copper alloys should not be used in heat transfer systems with a hydrocarbon fluid unless air (oxygen) is excluded from contact with the fluid by hermetic sealing and/or an inert gas blanket

FEATURES & BENEFITS :

- Formulated with premium base oil technology.
- Noncorrosive, low odor level, excellent seal compatibility.
- Excellent thermal and oxidation stability.

TYPICAL PERFORMANCE :

PARAMETERS	ASTM	UNIT	OPTIMA THERMIC Fluid	
ISO VG Grade			22	46
Kinematic Viscosity @ 104°F /40°C	ASTM D-7042	cSt	23.1	41.1
Kinematic Viscosity @ 212°F /100°C	ASTM D-7042	cSt	4.47	6.32
Viscosity Index	ASTM D-2270	-	104	101
SP. Gravity @15°C/ 60°F	ASTM D-4052	g/cm3	0.865	0.868
Flash Point (min)	ASTM D-92	°C	210	220
Pour Point	ASTM D-97	°C	-15	-15
Neutralization Number	ASTM D-974	Mg/KOH/g	0.07	0.07

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. For further Information on Safety Guidelines please refer to MSDS.

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.