



SPO THERMIC FLUID

PRODUCT DESCRIPTION:

SPO Thermic Oils are mineral oil-type heat transfer oils for use in thermic systems with forced circulation.

APPLICATION:

SPO Thermic 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, SPO 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. SPO 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, SPO 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 PROPERTIES:

PARAMETERS	TEST METHOD	UNIT	SPO THERMIC FLUID	
Grade			22	46
Kinematic Viscosity @ 104°F /40°C	ASTM D-7042	cSt	TBR	TBR
Kinematic Viscosity @ 212°F /100°C	ASTM D-7042	cSt	4.47	6.32
Viscosity Index	ASTM D-2270	-	104	101
Density @15°C/ 60°F	ASTM D-4052	g/cm ³	TBR	TBR
Flash Point (min)	ASTM D-92	°C	210	220
Pour Point (max)	ASTM D-97	°C	-15	-15
Neutralization Number	ASTM D-974	Mg/KOH/g	0.07	0.07

DISCLAIMER:

The test data mentioned above is not a definitive specification but serves as an indication and may fluctuate within acceptable production tolerances. Venom retains the right to alter this test data. Any updated information will replace previous versions, so please consult the latest Technical Data Sheet (TDS).

HEALTH & SAFETY, ENVIRONMENT:

Extended and repeated exposure to oil can lead to skin conditions. Please avoid contact. If you do come into contact with oil, wash the affected area immediately with soap and water. Do not dispose of used oil down drains or into the environment; instead, take it to an authorized used oil collection point.

HEALTH & SAFETY:

This product is unlikely to pose significant health or safety risks when used properly in the recommended application and with good personal hygiene practices. For more information, please refer to the Safety Data Sheet (SDS), which is available upon request from your local sales office.

PROTECT THE ENVIRONMENT:

Please take used oil to an authorized collection point and adhere to local regulations. Do not discharge it into drains, soil, or water.

STORAGE:

We recommend storing all packages in a covered area. If outdoor storage is necessary, drums should be positioned horizontally to prevent water ingress and protect the markings. Products should never be stored above 60°C or exposed to direct sunlight or freezing temperatures.