



## OPTIMUS THERM M2

### HIGH PERFORMANCE MINERAL HEAT TRANSFER FLUID

#### PRODUCT DESCRIPTION:

Optimus Therm M2 Oils are mineral oil-type heat transfer oils for use in thermic systems with forced circulation.

#### APPLICATION:

Optimus Therm M2 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, Optimus Therm M2 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 Therm M2 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, Optimus Therm M2 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	OPTIMUS THERM M2	
Grade			22	46
Kinematic Viscosity @ 104°F /40°C	ASTM D-7042	cSt	22	32
Kinematic Viscosity @ 212°F /100°C	ASTM D-7042	cSt	TBR	TBR
Viscosity Index (min)	ASTM D-2270	-	120	120
Density@15°C/ 60°F	ASTM D-4052	g/cm <sup>3</sup>	TBR	TBR
Flash Point (min)	ASTM D-92	°C	210	220
Pour Point (max)	ASTM D-97	°C	-12	-12

**DISCLAIMER:** The test data provided above is not a specification but is indicative and may vary within permissible production tolerances. Lubrex reserves the right to modify this test data. Updated information will supersede previous versions, so please refer to the latest version of this Technical Data Sheet (TDS).

#### 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 available on our website [www.lubrex.net](http://www.lubrex.net)

#### 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 or via the internet [www.lubrex.net](http://www.lubrex.net)

#### 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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