

PRODUCT INFORMATION

ASSISTO THERM LT

Description

ASSISTO THERM LT is a heat transfer oil produced from selected highly refined mineral oils with high levels of thermal stability, low vapour pressure and specific heat and thermal conductivity, designed for use in the liquid phase in closed systems with forced circulation, where exceptional low temperature properties are required.

Application

ASSISTO THERM LT is recommended for non-pressurised indirect heating or cooling systems. The low pour point ensures good circulation at low temperatures. The normal operating temperature of bulk oil ranges from -35 to 240°C; however, the film temperature should not exceed 250°C.

After pressure testing the system for leaks and flushing it thoroughly with ASSISTO THERM LT (never use water), the system should be drained completely and filled with fresh ASSISTO THERM LT until the oil level in the expansion tank is at 40% of the level expected at operating temperature. The mineral oil expands when heated and the exposure to air must be minimised, especially at fluid temperatures above 50°C in the expansion tank. To minimise excessive oxidation of the oil it can be blanketed with inert gas, or a floating cover can be installed.

Features/Advantages and Benefits

- Excellent thermal stability
- Good heat transfer properties
- Low coking and residue formation
- Very good pumpability
- Maximum film temperature of 250°C
- Long service life

MARINE IN ALL WE DO!

Typical Characteristics

Properties	Test Method	Data	Unit
Density at 15°C	ASTM D1298	840	kg/m ³
Flash point (PMC)	ASTM D93	175	°C
Flash point (COC)	ASTM D92	185	°C
Fire point	ASTM D92	205	°C
Autogenous ignition temp.	ASTM D2155	300	°C
Kinematic viscosity @ 40°C	ASTM D455	14	cSt
Kinematic viscosity @ 100 °C	ASTM D455	3	cSt
Pour point	ASTM D97	-42	°C
Neutralisation value	ASTM D974	<0.05	mgKOH/g
Ramsbottom Carbon	ASTM D524	0.02	%wt
Coefficient of thermal expansion		0.00077	1/K

Health and Safety

The Safety Data Sheet is available on request and describes the product in terms of safety in use, handling and transport. The product is not classified as dangerous according to the Regulation 1272/2008 or the Directive 1999/45/EC. When used as intended, this product does not pose significant health risks. Repeated exposure may cause skin dryness or cracking. In case of skin contact, immediately wash the affected area with plenty of soap and water. Remove contaminated clothes.

Handling and Packaging

The compatibility and miscibility with comparable products from other suppliers have been tested successfully by an independent institute. In order to benefit from full product performance the mixing of lubricants should be limited to a minimum.

All packages should be stored under cover to avoid water ingress and the obliteration of drum markings. Products should not be stored above 60°C.

The product is available in bulk and drums of approximately 205 litres.

Further Information

For further information about LUKOIL Marine Lubricants please contact any representative of LUKOIL Marine Lubricants or visit our website www.lukoilmarine.com.

LUKOIL Marine Lubricants DMCC

January 2015

This data sheet and the information given are considered to be accurate to the best of our knowledge. While the physical and chemical characteristics are typical of current production and compliant to specification of «LLK International», variations in these characteristics may occur. No warranty expressed or implied, is given as to the accuracy or completeness of the information or suitability of the products.

«LLK International» and the distributor shall not be responsible for any damage or injury resulting from abnormal use of the product. The user will be always responsible to evaluate and use products safely and to comply with all applicable laws and regulations. Furthermore «LLK International» shall not be liable for any loss or damage resulting from any error or omission in this document.