

## LUKOIL THERMO OIL

### High quality heat transfer oil

#### Approvals

- Versalis

#### Meets requirements

- ISO 6743-12 (Q)

#### Product description

High quality heat transfer oil for closed systems with forced circulation. Based on highly refined base oils with advanced additive package, that improve antioxidation properties.

#### Application

Intended for use in thermal oil heaters and boilers, air-heaters, thermostats, steam generators, waste heat exchangers and other industrial and household closed heat exchangers with forced circulation. Maximum recommended operating temperature is 320 °C, a short-term increase in temperature up to 330 °C is allowed.

#### Benefits

##### EXTENDED DRAIN INTERVAL

Reduces maintenance costs and reduces downtime

##### RELIABLE PERFORMANCE

Excellent heat transfer efficiency thanks to carefully selected base stocks

##### OXIDATION RESISTANCE

Keeps heating surfaces clean and free from sludge and deposits

The product name in an order: Heat Transfer Oil LUKOIL THERMO OIL, STO 79345251-017-2015

#### Typical test data

The information given in the typical data does not constitute a specification and can be affected by allowable production tolerances. The right to make modifications is reserved by OOO «LLK-International»

Property	Test methods	Value
Density at 20 °C, kg/m <sup>3</sup>	ASTM D4052	840.2
Kinematic viscosity at 100 °C, mm <sup>2</sup> /s	ASTM D445	5.5
Kinematic viscosity at 40 °C, mm <sup>2</sup> /s	ASTM D445	30.5
Kinematic viscosity at 0 °C, mm <sup>2</sup> /s	ASTM D445	289
Pour Point, °C	GOST 20287 B	-20
Flash Point, COC, °C	ASTM D92	230
Copper corrosion (3 h, 100°C)	ASTM D130	1b
Flash point, PMCC, °C	GOST 6356 / ASTM D93	205

#### Typical data for the design of heat exchange equipment

Temperature	20	150	200	250	300
Density, kg/m <sup>3</sup>	840.2	747.6	712.0	676.4	640.8
Specific heat capacity, J/(kg*K)	1540	2140	2370	2600	2870
Thermal conductivity coefficient, W/(m*K)	0.137	0.134	0.130	0.126	0.121
Prandtl number	759.0	30.7	19.7	14.5	12.0