

SUPRACAL 105

High-quality heat transfer oil

DESCRIPTION

SUPRACAL 105 is a special high-quality oils for heat transfer and thermal regulation based on highly refined mineral oils.

APPLICATIONS

Highly refined mineral oil with paraffinic tendencies for heat transfer and thermal controls operating at temperatures up to 250°C.

SUPRACAL 105 is used for open circuits and oil bath heaters at temperatures up to 200 °C.

Recommended heating power: 1 W/cm² for convection and 3 to 4 W/cm² for circulation.

ADVANTAGES

- Based on highly refined mineral oils.
- High temperature and oxidation stability.
- Excellent anti-rust, anti-corrosion and anti-foam characteristics.
- Very low vapour pressure.
- Toxic-free.
- Usage up to 270 °C in closed tanks.
- Long service life without deposit formation or viscosity increase.

TECHNICAL INFORMATION

NAME	UNITS	METHOD	SUPRACAL 105
Density at 20°C (68°F)	kg / L	ISO 12.185	0.880
Viscosity at 40°C (104°F)	mm²/s	ASTM D445	101.5
Viscosity at 100°C (212°F)	mm²/s	ASTM D445	11.3
Viscosity Index	-	ASTM D2270	97.0
Flash point	°C	ASTM D92	272.0
Pour point	°C	ASTM D97	-17.0
Temperature range	-		-10°C to +220 °C
Aniline Point	°C	ASTM D611	110
Vapour Pressure	mbar		30.0 bei 300 °C
Vapour pressure at 300°C	mbar		30.0
Specific heat at 40 °C	J/g.K	ASTM E 1269	2.4
Specific heat at 100°C	J/g.K	ASTM E 1269	2.5
Specific heat at 150 °C	J/g.K	ASTM E 1269	2.7
Specific heat at 250 °C	J/g.K	ASTM E 1269	3.1
Thermic conductivity at 20°C	W/m.K		0.1
Expansion Coefficient	%/°C		0.070

These characteristics are given only for information and can be updated over time.

SERVICES AND EQUIPMENT

In addition to its product ranges, MotulTech can provide tools and services for the maintenance and monitoring of your lubricants. Please contact your technical sales representative for more information.