

SUPRACAL

Heat Transfer Oils

DESCRIPTION

Special high-quality oils for heat transfer and thermal regulation.

RECOMMENDED APPLICATIONS

Highly refined mineral oil with paraffinic tendencies for heat transfer and thermal controls operating at temperatures up to 280°C.

Can be used for dynamic circulation as well as static applications.

Due to its fluidity, **SUPRACAL 22** and **SUPRACAL 32** are suitable for :

- Installations operating in closed circuits up to 270 °C with an expansion chamber
- Thermoregulators

SUPRACAL 105 is used for open circuits and oil bath heaters at temperatures up to 130 °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

CHARACTERISTICS	Standards	SUPRACAL 22	SUPRACAL 32	SUPRACAL 105	UNIT
Density at 20°C	ISO 12185	0.850	0.867	0.880	Kg/L
Viscosity at 40 °C	ASTM D445	22	30.4	101.5	mm ² /s
Viscosity at 100 °C	ASTM D445	4.4	5.3	11.3	mm ² /s
Viscosity index	ASTM D2270	110	104	97	-
Pour point	ASTM D97	-36	-21	-17	C°
Flash point	ASTM D92	212	222	272	C°
Aniline point	ASTM D611	112.6	98.9	110.1	C°
Vapour pressure at 300°C	-	57	54	30	mb
Specific heat at 40 °C	-	2.376	2.354	2.399	J.g ⁻¹ .K ⁻¹
Specific heat at 100 °C	-	2.466	2.490	2.546	J.g ⁻¹ .K ⁻¹
Specific heat at 150 °C	-	2.613	2.659	2.729	J.g ⁻¹ .K ⁻¹
Specific heat at 250 °C	-	2.936	3.048	3.127	J.g ⁻¹ .K ⁻¹
Thermal dilatation coefficient	-	0.0739	0.0739	0.0696	%/C°
Thermic conductivity at ambient temperature	-	0.134	0.136	0.141	W/m.K
Temperature range	-	-15°C à 270C°	-10°C à 270°C	-10°C à 220°C	

The specifications are given for information purposes only and may need to change.