



Technical Data Sheet

Warm oil ISO 32 Heat Transfer Oil

Product Description

A specialized paraffinic mineral fluid designed for heat transfer systems.
Formulated from narrow distillation cuts to minimize volatile fractions and enhance thermal efficiency.

Key Properties

High thermal stability & high flash point
Low vapor pressure & chemical inertness
Low viscosity (ISO 32) for improved cracking resistance, heat transfer performance, and easier startup

System Design & Operation (>300°C)

Fluid service life depends heavily on system maintenance and setup:

Pumps & Circulation: Continuous oil flow is required (speed >3 m/s). Use emergency pumps to prevent stagnation.

Boiler: Requires exact sizing to prevent overheating.

Expansion Vessel: Essential to compensate for ~20% fluid expansion up to 300°C (7-8% per 100°C rise).

Open Vessel: Low cost, but exposed to air (keep temperature below 60°C to limit oxidation).

Closed Vessel: Preferred choice; pressurized with inert gas (nitrogen) to prevent oxidation.

Meets the requirements of

ISO 6743/12

Product Packaging

5200518 20 -20L

5200518 204 -204L

Property	Method	Unit	
ISO			32
Specific Gravity 15°C	ASTM D 1298	kg/L	0,865 – 0,872
Viscosity at 40°C	ASTM D 445	cSt	28,8 – 35,20
Viscosity at 100°C	ASTM D 445	cSt	5,3 – 5,6
Viscosity Index	-	cSt	>98
Pour Point	ASTM D 97	°C	≤ -12
Flash Point	ASTM D 92	°C	≥ 215
Color	Crystal Gold		Crystal Gold
Conradson Carbon Residue	ASTM D189	% wt	< 0.05
Copper Strip Corrosion (3h at 100°C)	ASTM D130	Rating	1a

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