

Technical Data Sheet

Therminol® RD Heat Transfer Fluid

Applications

- Gas treatment / sweetening / desulpheriz
- Htf - fine chemicals
- Phthalic anhydride
- Polymer & plastic
- Specialty and batch chemical production
- Specialty chemicals

Key Attributes

- Low temperature pumpability
- Low viscosity

Product Description

Therminol RD is a low viscosity heat transfer fluid particularly recommended for indirect heating at medium temperatures, where low temperature pumpability is required. The chemical composition of Therminol RD has been carefully selected to minimize the formation of low boilers and eliminate the risk of insoluble high boiler formation and fouling, provided the system is designed and operated within specified guidelines.

Performance Benefits

- The chemical composition of Therminol RD has been carefully selected to minimize the formation of low boilers and eliminate the risk of insoluble high-boiler formation and fouling, provided the system is designed and operated within specified guidelines.

Typical Properties

Property	Test Method	Typical Value, Units
General		
Appearance		Clear liquid
Composition		Synthetic hydrocarbon mixture
Maximum bulk temperature		270 °C (520 °F)
Maximum film temperature		300 °C (570 °F)
Normal Boiling Point		283 °C (541 °F)
Pumpability		
@300 mm ² /s (cSt)		-25 °C (-12 °F)
@ 2000 mm ² /s (cSt)		-36 °C (-33 °F)
Flash Point		
COC	ASTM D92	120 °C (248 °F)
Autoignition Temperature	DIN 51794	395 °C (743 °F)
Pour Point	ISO 3016	-55 °C (-67 °F)
Viscosity, Kinematic		
@ 100°C	ASTM D 445	1.72 cSt, mm ² /s
@ 40°C	ASTM D 445	5.91 cSt, mm ² /s
Molecular Weight (Average)		240
Moisture Content, maximum	ASTM E-203	250 ppm
Dielectric Constant		
@ 23°C	ASTM D-924	2.28

Comments

Properties reported here are typical of average lots. Eastman makes no representation that the material in any particular shipment will conform exactly to the values given.

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