



Product Name: Heat Transfer Oil

Application: Heat transfer oil systems

ISO viscosity grade: 22, 32, 46

Quality: Mineral

Recommended for: Use in heat transfer systems where fuel oil, gas, or electricity is used to heat a fluid, which then transfers the heat to the point of application

Drain Interval : Between 6,000 to 10,000 Operation hours

Product Overview

Heat Transfer Oil is a premium mineral-based thermal fluid designed for superior heat transfer efficiency, exceptional oxidation stability, and high thermal resistance. Formulated with highly refined base stocks and anti-corrosion additives, it ensures extended service life and protection against deposit formation, ensuring reliable performance in industrial heating applications.

Application

Heat Transfer Oil is recommended for use in heat transfer systems where efficient thermal stability is essential. It is suitable for:

- Closed-loop heat transfer systems with expansion vessels.
- Industrial heating processes, including autoclaves, reactors, and molding systems.
- Steam and hot water production.
- Heating in liquid baths and storage tank temperature maintenance.
- Counterflow heat exchangers and drying tunnels.

Performance Benefits

- **Outstanding Thermal Stability:** Ensures long service life with minimal degradation.
- **Excellent Oxidation Resistance:** Prevents sludge and deposit formation, maintaining clean system operation.
- **Superior Heat Transfer Efficiency:** Provides rapid heat dissipation for improved operational efficiency.
- **Corrosion Protection:** Protects against rust and system wear for long-term reliability.
- **Low Volatility & High Flash Point:** Minimizes evaporative losses and enhances safety.
- **Good Pumpability:** Ensures smooth circulation in both low and high-temperature applications.

Meets & Approvals

- **DIN 51522** - Requirements for heat transfer oils.
- **ISO 6743-12** - Classification for heat transfer fluids.
- **ASTM D6743** - Oxidation stability test for thermal oils.
- **U.S. Steel 120** - High-temperature lubrication standard.
- **General Electric GEK 28143A** - Heat transfer oil specification





Typical Properties

Property	Method	Unit	ISO 22	ISO 32	ISO 46
Density @ 15°C	ASTM D4052	g/ml	0.84	0.86	0.87
Kinematic Viscosity @ 40°C	ASTM D445	cSt	22	32	46
Kinematic Viscosity @ 100°C	ASTM D445	cSt	4.2	5.5	6.8
Viscosity Index	ASTM D2270	-	104	113	102
Flash Point (COC)	ASTM D92	°C	195	230	240
Fire Point	ASTM D92	°C	229	271	275
Pour Point	ASTM D97	°C	-15	-12	-9
Bulk Operating Temperature Limit	-	°C	310	310	315
Acid Value	ISO 6618	mg KOH/g	0.01	0.01	0.01
Autoignition Point	ASTM E659	°C	345	359	365
Ramsbottom Carbon Residue	ASTM D524	% wt	0.04	0.05	0.06

Storage & Handling:

- Store in a cool, dry place away from direct sunlight and moisture.
- Avoid contamination with water and other foreign materials.
- Maintain proper ventilation when handling the product.

Health, Safety, and Environmental Guidelines:

- Prolonged and repeated contact with oil may cause skin disorders. Avoid direct skin contact.
- In case of contact, wash affected area with soap and water immediately.
- Do not discharge used oil into drains or the environment. Dispose of it at an authorized collection point.
- Refer to the Safety Data Sheet (SDS) for more details

