

## THERM MX HEAT TRANSFER OIL

### Product Description

**THERM MX 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.

### Product Features & 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.

### Application

**THERM MX 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.

### Meets or Exceeds

- **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	THERM MX 22	THERM MX 32	THERM MX 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 & Environment

- 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.

