Technical Information Sheet

Gulf Synth Therm

Premium Quality Synthetic Heat Transfer Oil

Product Description

Gulf Synth Therm is a high-quality synthetic heat transfer oil designed for closed indirect heating systems. Formulated from exceptionally refined synthetic base stocks, it boasts outstanding oxidation stability and resistance against thermal cracking. This advanced formulation ensures prolonged service life without viscosity increase or deposit formation. The oil's superior properties, including high specific heat and thermal conductivity, facilitate rapid heat dissipation. With quick circulation at low temperatures, Gulf Synth Therm minimizes the risk of local overheating during startup.

While Gulf Synth Therm is thermally stable, its longevity is influenced by effective air exclusion measures. Recommended for use in enclosed and sealed heating systems, it maintains optimal performance up to a maximum bulk oil temperature of 330°C.

Features & Benefits

- Exceptional thermal and oxidation stability to reduce deposit formation and viscosity increase, resulting in prolonged service life and minimized downtime.
- Withstand bulk oil temperatures of up to 330°C, exhibits exceptional resistance to thermal cracking and decomposition, preserving heat transfer capability.
- High specific heat and thermal conductivity ensure swift heat dissipation and enhanced overall system efficiency.
- Superior low-temperature fluidity enables quick circulation at startup, reducing the risk of localized over-heating.
- Non-corrosive to aluminum, steel, copper, brass, or bronze, ensuring compatibility with a variety of materials commonly found in heating systems.

Applications

- Ideal for closed, indirect heating and cooling systems with expansion tanks in various industrial processes, operating at bulk oil temperatures up to 330°C.
- Suitable for open heating systems, provided that the bulk oil temperature does not exceed 180°C.

Gulf Synth Therm stands as a reliable solution for demanding applications, offering exceptional performance and contributing to the longevity and efficiency of heat transfer systems.

Specifications, Approvals & Typical Properties

Typical Properties		
Test Parameters	**ASTM Method**	**Typical Values**
Appearance	Visual	Bright & Clear
Kinematic Viscosity @ 40°C, cSt	ASTM D 445	22.05
Density @ 15°C, g / cc	ASTM D 4052	0.8561
Flash Point	ASTM D 92	210
Fire Point	ASTM D 92	224
Pour Point,	ASTM D 97	-60
TAN	ASTM D 974	0.05
Ash, %	ASTM D 482	0.005
Conradson Carbon Residue, %	ASTM D 189	0.008

Properties mentioned above are typical only and minor variations which do not affect the product performance are to be expected in normal manufacturing. The above information is based on past history of the grade only and must not be construed as a guarantee of performance. Follow equipment manufacturer's recommendations for performance level and viscosity grade. The Material Safety Data Sheet for this product is available from your nearest Gulf Distributor and Office.