

Heat Transfer Oil



General Description

Heat Transfer Oil is a highly refined and stable paraffinic oil designed to be used as a heat transfer medium and quenching oil.

In many industrial applications heating is provided indirectly by circulating hot oil through a heat exchanger, thus reducing hot spots and increasing the safety of the heating process. In quenching applications, heat is required to be rapidly drawn away from the parts in contact with the oil.

Due to the extremely high temperatures experienced in these applications, the oil must provide excellent thermal stability to resist oxidation, while also providing good heat transfer characteristics and resistance to carbon deposits (coking).

Heat Transfer Oil is fully formulated to provide long service in closed, low pressure heat transfer systems such as asphalt and processing plants working at temperatures up to 550°F, and is also recommended for use in high temperature quenching. Heat Transfer Oil can also be used in open heat transfer systems and quenching operations at lower temperatures.

Features and Benefits

- **High Temperature Life:** Excellent stability extends high temperature operating times.
- **Conductivity:** Good conductivity provides rapid cooling and heating operations.
- **Low Volatility:** Volatility control enables operation in closed high temperature, low pressure systems.
- **Good Pumpability:** Good pumpability at start-up provides low energy requirement.

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Typical Applications

Heat Transfer Oil is designed for quenching and indirect heating applications such as found in many industrial applications.

Typical Customers

- Asphalt and roofing companies
- Shops performing metal quenching

Typical Properties

| | | |
|--|-------------------|-------------|
| ISO Viscosity Grade | 32 | 46 |
| API Gravity / lbs./gal. | 32.1 / 7.20 | 31.2 / 7.24 |
| Viscosity Index | 104 | — |
| Viscosity cSt @ 40°C (SUS) cSt @ 100°C | 31.7 (157) 5.4 | 45.8 |
| Flash Point, COC, °F | 420 | — |
| Pour Point, °F / °C | 10 / -12 | — |

The typical properties listed reflect the general characteristics of the product, and are not manufacturing specifications. Normal batch-to-batch variations should be expected.

Health & Safety

A complete safety data sheet is available by calling 1-651-355-8438 or visit cenex.com/sds-library.