

Product Data Sheet

Servotherm Oils

Industrial Heat Transfer Fluid



Description

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. Servotherm oils have been specially developed for use as heat transfer medium in industrial application. These oils possess high viscosity index, excellent thermal and oxidation stability, low volatility and low vapour pressure to give long service life in well designed heat transfer systems. Servotherm Special oils are recommended for well-designed heat transfer system operating upto 315°C.

Performance, Features and Benefits

- Give long service life since they have high resistance to thermal cracking and oxidation
- Have high specific heat and good thermal conductivity at all temperatures, and consequently provide rapid heating and more flexibility in heat transfer systems.
- Perform efficiently in high as well as low temperature heating applications
- Ensure low power consumption since they maintain adequately low viscosity for easy pumpability over a wide range of temperature
- Do not have any toxicity and obnoxious odour
- Can be used in combined heating and cooling cycles

Application

Servotherm oils are recommended as a fluid medium in various types of heat transfer system for indirect or secondary heating in industry. The use of these oils provide rapid heating and greater flexibility in heat transfer systems since they possess high specific heat and better thermal conductivity at all temperatures.

These oils are suitable for use in both, closed as well as open type heat transfer systems. Servotherm oils have a high resistance to thermal cracking and hence maintain their heat transfer efficiency even when subjected to repeated high and low temperature cycles.

The heat transfer system must be thoroughly cleaned and free from contaminants. All traces of dust, rust and residue of welding operations must be removed by flushing. After the flushing oil is drained out, the system must be free from moisture before it is charged with Servotherm oils.

Approvals / Performance Standards / Recommendations

- Thermax Private Ltd., Pune

Typical Physical Characteristics

Parameters	Method	Light	Medium	Super	Special
Kinematic Viscosity @ 40°C, cSt	ASTM D 445	13.5	31.5	30.5	29.51
Kinematic Viscosity @ 100°C, cSt	ASTM D 445	3.21	5.6	5.41	5.47
Viscosity Index	ASTM D 2270	104	117	111	123
Flash Point, COC, °C	ASTM D 92	188	226	218	228
Pour Point, °C	ASTM D 97	(-) 18	(-) 21	(-) 6	(-) 18

Health, Safety & Environment

Based on available information, this product is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDS's are available upon request through your sales contract office, or at <https://cx.indianoil.in/>. This product should not be used for purposes other than its intended use. If disposing of used product, take care to protect the environment.

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