



# UNITED FULLY SYNTHETIC EPSILON HEAT TRANSFER OIL

## Product Description:

United Fully Synthetic Epsilon Heat Transfer Oil is designed to give outstanding and much extended service in a variety of applications. United Fully Synthetic Epsilon Heat Transfer Oil is blended from high nature viscosity index fully synthetic base oils and fortified with a high technology core oxidation inhibitor to enhance high temperature performance and stability as well as dramatically prolong the service life span. United Fully Synthetic Epsilon Heat Transfer Oil is resistant to oxidation even at very high temperature thus minimizes degradation, giving this fluid a longer usable life and minimizing deposit formation that can be inhibit efficient heat transfer.

United Syn Epsilon Heat Transfer Oil may be used in both open and inert gas blanketed close heat transfer systems. And in the open system, Epsilon Fully Synthetic Heat Transfer Oil should not be used over 160 °C. While in the close system, the maximum operation temperature is 320 °C.

## Applications / Benefits:

- ▣ Blended with naturally high VI synthetic base oils.
- ▣ Contains high temperature oxidation inhibitors.
- ▣ Minimizes deposit formation.
- ▣ Long fluid life.

## Typical Characteristics:

Test Description	Method	22	32	46
ISO Viscosity Grade	-	22	32	46
Specific Gravity @ 15 °C	ASTM D 4052	0.841	0.843	0.848
Flash Point, °C	ASTM D 92	218	228	232
Pour Point , °C	ASTM D 97	-18	-18	-15
Kinematic Viscosity, cSt @ 40°C	ASTM D 445	22.2	30.5	44.2
cSt @ 100°C	ASTM D 445	4.57	5.67	7.30
Viscosity Index	ASTM D 2270	122	128	127
Color	ASTM D 1500	<0.5	<0.5	<0.5

### Specific Heat Capacity

Temperature, °C	25	100	150	200	250	300
ISO 22 Specific Heat Capacity, kJ/kg·°C	1.82	2.08	2.21	2.49	2.73	2.91
ISO 32 Specific Heat Capacity, kJ/kg·°C	1.88	2.16	2.32	2.51	2.71	2.87
ISO 46 Specific Heat Capacity, kJ/kg·°C	1.93	2.19	2.34	2.5	2.68	2.85

Max. Film Temperature, °C	340
Max. Bulk Temperature, °C	320