

ReOil[®]

EcoFluid HTF 4



Product Description and Application

ReOil EcoFluid HTF 4 is a high-performance heat transfer fluid formulated and designed to meet a wide range of operating temperatures. The formulation is based on a renewably sourced, pure synthetic base fluid which is oxidative and thermally stable as well as environmentally friendly.

ReOil EcoFluid HTF 4 is recommended for use in non-pressurised, liquid phase, closed heat transfer systems up to a maximum bulk operating temperature of 315°C (600°F). The high viscosity index ensures outstanding heat transfer efficiency over a wide range of operating temperatures, while its low temperature fluidity ensures excellent pumpability.

ReOil EcoFluid HTF 4 is formulated with NSF HX-1 approved ingredients for incidental contact in food grade applications.

Eco-Friendly Credentials

ReOil EcoFluid HTF 4 is environmentally friendly, non-toxic, and non-hazardous. It poses no ill effect to worker safety and the environment. Impressive biodegradability, ecotoxicity and bioaccumulation credentials are only surpassed by the fact that this product is carbon neutral and almost 100% renewable. ReOil EcoFluid HTF 4 is the ideal product for companies serious about their carbon footprint, sustainability targets and overall worker safety.



Key benefits

- + Long oil life - helps reduce maintenance & waste
- + High oxidative and thermal stability
- + High Flash Point
- + Renewable and Carbon neutral
- + Extremely low impact on the workplace and the environment
- + NSF H-1 food grade

SPECIFICATION	TEST METHOD	UNIT	TYPICAL	COMMENTS
Density @ 15°C	ASTM D4052	kg/L	0.82	Excellent performance over a wide range of temperatures (eg pumpability)
Kinematic Viscosity @ 40°C	ASTM D445	cSt	19.8	
Kinematic Viscosity @ 100°C	ASTM D445	cSt	4.373	
Viscosity Index	ASTM D2270		133	
Pour Point	ASTM D97	°C	-42	Safer to operate, store and handle
Flash Point, COC	ASTM D92	°C	230	
Fire Point	ASTM D92	°C	266	
Auto Ignition Temperature	ASTM E659	°C	375	Unique chemistry compared to legacy crude oil derived base fluids
Distillation Range	ASTM D2887	°C		
Initial Boiling Point			365.7	
Final Boiling Point			545.7	
Average Molecular Weight			460	Outstanding thermal properties offering longer service life and reduced operational costs
Thermal Conductivity	ASTM D2717	W/m.°K		
@ 0°C			0.146	
@ 150°C			0.124	
Specific Heat Capacity	ASTM E1269	kJ/kg.°K		Better for the environment
@ 40°C			2.188	
@ 150°C			2.562	
Biodegradability	OECD 301B		>60%	
Renewability content	ASTM D6866-C		>98%	

*The above typical properties are typical of those obtained with normal production tolerances and does not constitute a specification. Minor variations that do not affect product performance are to be expected during normal manufacture.