Ester Base Oil for Biodegradable Fire Resistant Hydraulic Oil G-HFDU-32/G-HFDU-46/G-HFDU-68 (Trimethylolpropane Oleate)

Description

Goncord ester based series for fire resistant hydraulic oil is produced through the reaction of neopentyl polyol with long-chain unsaturated fatty acids or dibasic acids, followed by refinement using advanced processing techniques.

This series of hydraulic oils boast high flash and ignition points, along with excellent flame retardant performance, reduces the risk of combustion from hot metal, sparks, open flames, and hydraulic system issues. High biodegradability, exceeding 90% according to OECD 301B test method, makes this series ideal for use as a base oil in both fire-resistant (HFDU) and biodegradable (HEES) hydraulic oils.

Features

- High viscosity index, wide usable temperature range
- Outstanding lubricity
- Superior corrosion and rust resistance
- Excellent demulsification and anti-foaming properties
- Excellent thermal stability, extends oil change interval
- Biodegradable, environmentally friendly
- Does not emit toxic gases when exposed to high temperatures.

Applications

Fire-resistant hydraulic oil (HFDU)
Biodegradable hydraulic oil (HEES)

Meet the following standards

ILVA CRS/T CM425
Rexroth RD90221/05.93
Schaeff
7th Report of Luxembourg - HFDU

Typical Properties

Specification	G-HFDU-32	G-HFDU-46	G-HFDU-68	Method
Appearance	Clear & Colorless	Clear & Colorless	Clear & Colorless	Visual
Kinematic viscosity @40°C, mm2/s	31.62	45.72	65.08	GB/T265
Kinematic viscosity @100°C, mm2/s	7.25	9.479	12.22	GB/T265
Viscosity index	205	198	189	GB/T1995
Flash point, °C	>300	>300	>300	GB/T3536
Pour point, °C	-50	-51	-48	GB/T3535
Acid value, mgKOH/g	0.15	0.08	0.12	GB/T4945
Density@20°C, kg/m³	0.916	0.914	0.918	SH/T0604
Water Content, m%	minimal	minimal	minimal	GB/T260
Mechanical impurities, m/m%	0.001	0.001	0.001	GB/T511
Iodine value, g/100g	86	86	88	GB/T5532
Saponification value, mgKOH/g	178	179	180	GB/T8021
Hydroxyl value, mgKOH/g	5	5	6	GB/T7384
Air release value @50°C, min	1.2	1.1	1.5	GH/T0308
Foaming Tendency/Stability @24°C @93°C @After 24°C	10/0 10/0 10/0	10/0 10/0 10/0	10/0 10/0 10/0	GH/T12579
Demulsibility (40-37-3) @54°C, min	10	15	18	GH/T7305