

Gear Oils - Food Grade

Description :

Divyol Food Grade Gear Oils are fully synthetic lubricants designed for gears and bearings, utilizing food grade compatible ingredients. The synthetic hydrocarbon base fluid has been validated through extensive evaluations, demonstrating prolonged service life and overall economic advantages which includes robust film strength and remarkable resistance to mechanical shear even under heavy load conditions. Additional benefits include enhanced fluidity at low temperatures, excellent oxidation resistance at high temperatures, and thermal stability, with operating limits typically exceeding those of mineral oils by 100°F / 38°C. Furthermore, they exhibit low volatility and compatibility with mineral oils.

Application :

Divyol Food Grade Gear Oils (NSF-H1 certified) are utilized in food, beverage, and pharmaceutical machinery for the lubrication of enclosed gearboxes, bearings, chains, and joints where incidental contact with food may occur, thereby ensuring the safety of machinery, compliance with regulations, and efficiency in processing environments such as bakeries, dairies, and breweries.

Performance Benefits :

- Enhanced Wear & Load Protection
- Excellent Water Resistance & Demulsibility
- Corrosion & Rust Prevention
- Superior Oxidation & Thermal Stability
- Better Sealing Compatibility
- Excellent Low Temperature Fluidity
- Energy saving

Typical Physical Characteristics :

Sr. No.	Characteristics	Test Method	Gear Oils - Food Grade			
			150	220	320	460
1	Appearance	Visual	Clear & Bright			
2	Colour	ASTM D 1500	<0.5	<0.5	<0.5	<0.5
3	Specific Gravity @ 29.5°C	ASTM D 1298	0.842	0.842	0.842	0.842
4	Kinematic viscosity @ 40°C, cSt	ASTM D 445	150	220	320	460
5	Viscosity index	ASTM D 2270	150	150	150	140
6	Flash point, COC, °C	ASTM D 92	>220	>220	>230	>250
7	Pour Point, °C	ASTM D 97	Minus 36	Minus 36	Minus 36	Minus 24
8	Copper Strip corrosion	ASTM D 130	1B	1B	1B	1B
9	Demulsibility, ml	ASTM D 1401	Pass	Pass	Pass	Pass
10	Foaming Characteristics, Tendency/Stability, Seq. II, ml/ml	ASTM D 892	NIL	NIL	NIL	NIL