



Ester Base Oil (Polyol Compound) for Gear Oil GD2000

Description

GD2000 is a high viscosity compound ester with excellent hydrolysis stability and shear resistance. It is an efficient and easy-to-use thickener for use in mineral and synthetic oils, recommended for thickening in various lubrication applications.

In some formulations, GD2000 compound ester can be used as an enhancer for sulfur-phosphorus extreme pressure agents to replace chlorinated paraffin wax. It exhibits excellent thickening performance, allowing for equivalent viscosity at lower addition ratios.

Features

- High oil film strength, excellent wear protection
- Excellent oxidation stability and thermal stability
- Chlorine-free EP technology, has a synergistic effect with sulfur-phosphorus EP agents
- Shear stability
- Very good combustion cleanliness
- Low volatility
- Ultra-high viscosity index
- Biodegradable
- Can be used in pure oil and soluble oil formulations

Applications

- Cutting and grinding (oil and emulsion): 10%
- Drawing and stamping (oil and emulsion): 10-50%
- High temperature grease: 15-40%
- Industrial gear oil: 50-85%
- Automotive gear oil: 20-60%
- High temperature chain oil: 10-30%

Typical Properties

Item	Visc @40°C, mm ² /s	Visc @100°C, mm ² /s	VI	Pour point, °C	Flash point, °C	Acid, mgkOH/g
GD2000A	30000~50000	1000~2000	> 260	6	> 300	5
GD2000B	30000~50000	1000~2000	> 260	6	> 300	0.2