



Ester Base Oil (POE) for High Performance Engine Oil G2820/G2823/G2835

Description

Goncord G2800 series of ester base oils for internal combustion engines are formulated using neopentyl polyols and saturated fatty acids through an advanced manufacturing process with a special post-treatment for enhanced performance.

This series of ester base oil offer excellent oxidation stability, wear resistance, and exceptional dissolving power. They can swell sealing materials, dissolve previously insoluble additives, and facilitate a homogenous mixture of additives, ultimately ensuring engine cleanliness.

Features

- Excellent lubricity
- High oxidation stability and thermal stability
- Excellent hydrolysis stability
- Excellent low-temperature performance
- Low volatility and low carbon deposit
- Biodegradable, DCD 65%
- Outstanding solubility of insoluble additives

Applications

They are particularly suitable for engine oils with viscosity grades such as 0W-16, 0W-20, 0W-30, 0W-40, and 0W-60. They can be blended with PAO, GTL oils, and Group III hydro-treated base oils.

- Multi-grade automotive engine oil (Group III oil + G2800), 5 to 15%
- High-end automotive engine oil (PAO/GTL + G2800), 5 to 25%
- Industrial gear oils and wind turbine gear oils, 5 to 10%

Typical Properties

Specification	G2820	G2823	G2835
Appearance	Clear and Colourless	Clear and Colourless	Clear and Colourless
Kinematic viscosity, 40°C mm ² /s	20.01	21.52	33.50
Kinematic viscosity, 100°C mm ² /s	4.488	4.62	5.81
Viscosity index (VI)	140	136	116
Acid number mgKOH/g	0.01	0.03	0.036
Hydroxyl value mgKOH/g	0.5	0.5	0.48
Pour Point, °C	-52	-45	-52
Flash Point (COC), °C	265	268	265
CCS cp (-30°C)	2189	2268	5650
Density @ 20°C kg/m ³	0.94	0.94	0.95