



PMA Viscosity Index Improver G6500V

In lubricant formulation, PMA viscosity index improvers are commonly used due to their numerous advantages and functionalities. Goncord PMA viscosity index improvers boast a highly flexible polymethacrylate structure, which effectively optimizes the viscosity index of oils. This delivers excellent low-temperature performance and shear stability. Additionally, Goncord's PMA improvers demonstrate good compatibility with additive packages, which further enhance low-temperature performance when combined with base oil.

Description

G6500V is an advanced polymethacrylate (PMA) concentrate dissolved in a high-purity mineral oil carrier. Specially designed for large-span vehicle gear oils, internal combustion engine oils, transmission fluids, CVTFs, and automatic transmission fluids (ATFs), G6500V features high shear stability for improved lubrication under pressure.

Additionally, G6500V offers easy solubility in all mineral and synthetic base oils, simplifying lubricant formulation. Its excellent compatibility with other traditional lubricant additives ensures seamless integration into existing formulations.

Features

- Narrow molecular weight distribution
- High shear stability
- Excellent low-temperature performance
- Effectively inhibit wax crystallization
- High viscosity Index with low pour point
- Multiple effects of viscosity increase

Typical Properties

Item	Typical values	Method
Appearance	Colourless and Clear	Visual
Viscosity @100°C, mm ² /s	395	GB/T 265
Colour	0.5	GB/T 6540
Density @20°C, kg/m ³	920	GB/T 0604
Flash point COC, °C	160	GB/T 3536
Shear stability Index (KRL 20hrs)	9.66	CECL-45-A-99

Formulations of Vehicle Gear Oil with G6500V

	100N (Shell)	150N (Hyundai)	500N (S-Oil)
G6500V, wt %	0 5 10	0 5 10	0 5 10
Viscosity index @100°C	4.16 5.09 6.38	5.32 6.53 8.37	12.25 14.81 17.21

G6500V Viscosity/Pour point Depressing Effect on Vehicle Gear Oil

	75W/90
G6500V, wt%	29.5
Viscosity @100°C, mm ² /s	16.51
Viscosity @40°C, mm ² /s	100.2
Viscosity Index	179
Pour point, °C	-40
KRL Post-shear Viscosity, mm ² /s	14.5
KRL SSI reduction rate, %	12.17
Brookfield viscosity @-40°C, mm ² /s	115200