PMA Viscosity Index Improver
G6300V

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

G6300V is a synthetic polymethacrylate (PMA) concentrate dissolved in a high-purity mineral oil carrier. It is a viscosity index improver specially designed for high shear stability in hydraulic oils.

Features

- Primarily used to formulate hydraulic oils, especially low-temperature, high-viscosity hydraulic oils
- Improves viscosity index and pour point while maintaining shear stability
- Outstanding filtration and anti-emulsification properties
- Serves as the core power for high-efficiency hydraulic oils
- Maintains optimal oil viscosity over a wide temperature range for enhanced performance and efficiency

Typical Properties

Item	Typical values	Method
Appearance	Colourless and Clear	Visual
Viscosity @100°C, mm^2/s	1354	GB/T 265
Colour	0.5	GB/T 6540
Density @20°C, kg/m^3	920	GB/T 0604
Flash point COC, °C	180	GB/T 3536
Shear Stability Index	KRL 20h 33.9	CECL-45-A-99
Shear Stability Index	Diesel nozzle 250 cycles 7.3	SH/T 0103
Shear Stability Index	Diesel nozzle 30 cycles 4.4	SH/T 0103

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Formulations of Hydraulic Oil with G6300V

	100N (Shell)			150N (Hyundai)			500N (S-Oil)		
G6300V, wt %	0	5	10	0	5	10	0	5	10
Viscosity index @100°C	4.16	6.24	8.472	5.32	7.94	11.89	12.25	16.62	22.68

Application of G6300V to Hyundai 150N and its effect on viscosity index and pour point depressing

G6300V	Visc @100°C	Visc @40°C	Viscosity Index	VI Increase	Pour point, °C
0%	5.32	30.59	106	-	-25
1%	589	32.5	126	20	-47
3%	6.89	36.65	150	44	-47
5%	7.94	44.04	154	48	-47