PMA Viscosity Index Improver
G6100V

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

G6100V is a synthetic polymethacrylate (PMA) concentrate dissolved in a high-purity mineral oil carrier. G6100V is specifically designed for formulating low-temperature hydraulic transmission fluids, such as those used in construction equipment, automatic transmissions in cold climates.

Features

- Excellent low-temperature fluidity
- Consistent shear stability
- Effective wax crystallization inhibition
- Superior filtration and anti-emulsification properties

Typical Properties

Item	Typical values	Method
Appearance	Colourless and Clear	Visual
Viscosity @100°C, mm^2/s	3000	GB/T 265
Thickening ability @100°C, mm^2/s	15-20	GB/T 10433-2007
Flash point COC, °C	170	GB/T 3536

Application of G6100V to 100N Base Oil and its effect on viscosity index and pour point depressing

100N Base Oil	Condensation/thickening condition			
G6100V, wt%	0	1	2	3
Viscosity @100°C, mm^2/s	4.31	5.56	6.67	8.04
Viscosity @40°C, mm^2/s	20.0	27.44	31.07	35.45
Viscosity Index	130	146	184	210
Pour point, °C	-25	-42	-44	-42

Application of G6100V to Hydraulic 32 and its effect on viscosity index and pour point depressing

Hydraulic 32	Condensation/thickening condition			
G6100V, wt%	0	1	2	3
Viscosity @100°C, mm^2/s	5.73	6.63	8.418	9.87
Viscosity @40°C, mm^2/s	30.80	35.38	42.84	49.70
Viscosity Index	129	145	177	190
Pour point, °C	-14	-42	-44	-43