

KC 6603P (Depressant)

Description

KC6603P is a PAMA pour-point depressant with excellent pour-point depressing effect and shear stability, suitable for engine oil, gear oil, hydraulic oil, and other lubricating oils. It is a universal pour point depressant, especially suitable for the formulation of base oils and class II and III hydrogenated oils with medium and low.

Performance

Excellent pour-point depressing effect; Excellent shear stability; pour-point depressing weight distribution; lower viscosity, easy to blend; a universal product with a wide range of application

Typical Inspections

Property:	Value:	Method:
Appearance	Transparent viscous liquid	Visual Inspection
Kinematic Viscosity (100℃), mm ² /s	300	GB/T 265
Color scale and number	0.5	GB/T 6540
Density (20℃), kg/m ³	920	SH/T 0604
Flash Point (open), ℃	160	GB/T 3536

The pour-point depressing effect of KC6603P in different base oils:

	Base Oil	Additive Free /°C	0.3%/6603P/°C	Pour-point
i	Dalian 150SN	-12	-30	18
	Dalian 400SN	-12	-22	10
ii	Hengli 150N	-12	-37	25
	Qinghe 150N	-24	-43	19
	Formosa 150N	-22	-43	21
	Huizhou 150N	-19	-41	22
	Daqing P6	-15	-30	15
	Beili 6#	-21	-42	21
	Maoming 6#	-18	-42	24
HI	Ssangyong 100N	-15	-39	24
	Ssangyong 150N	-21	-42	21
	Ssangyong 250N	-17	-37	20
	Abu Dhab 100N	-26	-42	16
	Abu Dhab 150N	-17	-37	20
	GTLICON	-37	-55	18

Compatibility of KC6603P with commonly used OCP viscosity index improvers:

KC6603P has good compatibility with the commonly used viscosity index improvers on the market, especially can effectively improve the low-temperature performance of oil and reduce MRV viscosity.

Item	Market mainstream foreign pour point depressant					
	Pour point /°C	CCS (-20°C)	MRV(-25°C)	Pour point /°C	CCS (-20°C)	MRV(-25°C)
Lubrizol 7067	-27	3030	14270		3080	17360
Chevron 8900E	-27	3090	15650	-24	3150	21540
Jihua 0010	-27	3200	14430	-27	3120	17930

Impact of KC6603P on anti-foam, anti-emulsification, anti-rust and thermal stability in L-HV 46 hydraulic oil

KC6603P has no negative effect on anti-foaming, anti-emulsification, anti-rust and thermal stability of oils.

Test Item/No.	L-HV46 Index	including foreign PAMA viscosity index improver and pour point depressant	L-HV46, including 602 pour point depressant and 602HC viscosity index improver	Test Method
Anti-foaming property (ml/ml) First 24 °C 93.5°C Last 24°C	No more than 150/0 No more than	20/0 10/0 15/0	10/0 10/0 15/0	GB/T 12579
Air release valve 50°C (min)	No more than 10	3	2.8	SH/T 0308
Resistance to falsifiability 54°C (emulsion to 3ml)	No more than 30	15	13	GB/T 7305
Rust test B in liquid phase	No rust	Qualified	Qualified	GB/T 11143
Thermostability 135°C/168h copper bar weight loss (mg/200mL) steel bar appearance, total weight of sediment	No more than 10 Unchanged	0 No gray black 26	0 No gray black 25.5	SH/T 0209