

Polyalphaolefins

Description

Polyalphaolefins are a synthetic base stock that can be used in many industrial and automotive lubricant applications including synthetic gear oils, compressor oils, hydraulic fluids, greases, engine oils and other functional fluids.

Properties

SPECIFICATION	ASTM	PAO 2	PAO 4	PAO 6	PAO 6B	PAO 7	PAO 8	PAO 8B	PAO 10	PAO 40	PAO 100
Appearance	D4176	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Color, Pt/Co	D5386	50 max	50 max	50 max	50 max	50 max	50 max	50 max	50 max	50 max	50 max
or	or										
Color, ASTM	D1500	0.5 max	0.5 max	0.5 max	0.5 max	0.5 max	0.5 max	0.5 max	0.5 max	0.5 max	0.5 max
Kinematic Viscosity (cSt) @ 100°C	D445	1.7 - 2.2	3.8 - 4.2	5.6 - 6.0	5.6 - 6.0	6.7 - 7.2	7.7 - 8.2	7.7 - 8.2	9.4 - 10.9	38.0 - 42.0	95.0 - 115.0
Flash Point (COC), °C	D 92	150 min	200 min	230 min	230 min	240 min	230 min	240 min	245 min	260 min	270 min
Pour Point, °C	D97 / D5950	-54 max	-54 max	-54 max	-40 max	-40 max	-40 max	-38 max	-40 max	-30 max	-18 max
Water, ppm	D6304	50 max	50 max	50 max	50 max	50 max	50 max	50 max	50 max	50 max	50 max
TYPICAL PROPERTIES											
Specific Gravity 15.6°/15.6°C	D4052	0.8	0.82	0.827	0.826	0.8306	0.832	0.831	0.835	0.85	0.855
Kinematic Viscosity (cSt) @ 40°C	D445	5.1	18	31	29.1	37.7	46	46	65	390	1,300
Kinematic Viscosity (cSt) @ -40°C	D445	285	2,700	7,600	8,200	10,732	18,000	-	38,000	-	-
Viscosity Index	D2270	-	125	135	150	146	135	148	138	147	170
Density, lb/gal	-	6.67	6.837	6.896	6.893	6.917	6.937	6.919	6.962	7.087	7.129
Acid Number, mg KOH/g	D974	0.01	0.01	0.01	<0.03	<0.03	0.01	<0.03	0.01	0.01	0.01

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