

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 7	PAO 8	PAO 10	PAO 40	PAO 100
Appearance	D4176	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Color, Pt/Co or Color, ASTM	D5386 or D1500	50 max 0.5 max	50 max 0.5 max	50 max 0.5 max	50 max 0.5 max	50 max 0.5 max	50 max 0.5 max	50 max 0.5 max	50 max 0.5 max
Kinematic Viscosity (cSt) @ 100°C	D445	1.6 - 2.2	3.8 - 4.2	5.6 - 6.0	6.7 - 7.2	7.3 - 8.3	9.4 - 10.9	38.0 - 42.0	95.0 - 115.0
Flash Point (COC), °C	D 92	145 min	200 min	230 min	240 min	230 min	245 min	260 min	270 min
Pour Point, °C	D97 / D5950	-54 max	-54 max	-54 max	-40 max	-40 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
TYPICAL PROPERTIES									
Specific Gravity 15.6°/15.6°C	D4052	0.8	0.82	0.827	0.8306	0.832	0.835	0.85	0.855
Kinematic Viscosity (cSt) @ 40°C	D445	5.1	18	31	37.7	46	65	390	1,300
Kinematic Viscosity (cSt) @ -40°C	D445	285	2,700	7,600	10,732	18,000	38,000	-	-
Viscosity Index	D2270	-	125	135	146	135	138	147	170
Density, lb/gal	-	6.67	6.837	6.896	6.917	6.937	6.962	7.087	7.129
Acid Number, mg KOH/g	D974	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05

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