



Adding value to your formulations

TECHNICAL DATA SHEET

POLYALPHAOLEFINS

PAOs 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

TYPICAL PROPERTIES	ASTM	PAO 2	PAO 4	PAO 5	PAO 6	PAO 7	PAO 8	PAO 9	PAO 10	PAO 40	PAO 100
Kinematic Viscosity (cSt)											
100 °C	D-445	1.7	3.9	5.1	5.9	7.0	7.9	9.0	10	41	103
40 °C		5.1	17	24	31	37	46	56	68	411	1,350
-40 °C		285	2,420	4,400	7,500	11,500	18,000	-	38,000	-	-
Viscosity Index	D-2270		124	145	135	145	135	143	136	152	168
Pour Point, °C	D-97		-73	-50	-61	-43	-57	-35	-54	-39	-23
Flash Point (COC), °C	D-92	165	219	246	238	260	257	258	266	288	288
Fire Point (COC), °C	D-92		249	278	271	290	290	304	304	n/a	n/a
Specific Gravity 15.6°/15.6°C	D-1298	0.800	0.820	0.824	0.828	0.832	0.833	0.835	0.835	0.850	0.855
Density, lb/gal		6.67	6.82	6.86	6.90	6.92	6.95	6.96	6.97	7.09	7.13
Acid Number, mg KOH/g Max	D-974		0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Appearance	D-4176	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear
Color, Pt/Co Max	D-5386	50	50	50	50	50	50	50	50	50	50
Noack Volatility, wt-%	DIN51581			5.5		2.3		1.5			
Evaporation Loss, wt-% 6.5 h @ 204.4°C (400°F)	D-972					1.3					

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- ACETYLENE BLACK
- ALKYLATES
- BASE OILS (GROUP II AND GROUP III)
- CABLE FLOOD, FILL AND GELS
- DIELECTRIC FLUIDS
- PERFORMANCE ADDITIVES
- POLYALPHAOLEFINS
- POLYBUTENES (STANDARD GRADES)
- REFRIGERATION FLUIDS
- SPECIALTY POLYISOBUTYLENE
- SULFONATES