

Durasyn[®] 168 Polyalphaolefin

Durasyn[®] 168 polyalphaolefin is a hydrogenated synthetic hydrocarbon base fluid for use in fully and partially synthetic, premium, long-drain lubricating oils, industrial oils, hydraulic fluids, transmission fluids, or heat transfer fluids.

Features:

Thermal stability
Oxidation resistance
Low-temperature fluidity
Low volatility
High viscosity index

Table 1: Routinely Measured and Typical Properties

ROUTINELY MEASURED PROPERTIES	TYPICAL	TEST METHOD
Viscosity, cSt, 100°C	7.8	ASTM D-445
Viscosity, cSt, 40°C	46.4	ASTM D-445
Viscosity, cSt, -40°C	19,352	ASTM D-445
Pour Point, °C	-58	ASTM D-97
Flash Point, °C	262	ASTM D-92
Specific Gravity, 15.6/15.6°C (60/60°F)	0.831	ASTM D-4052
Bromine Number, g Br ₂ / 100 g	0.1	IP-129
Total Acid Number, mg KOH/g	<0.01	ASTM D-974
Moisture, ppm	10	ASTM D-3401
Noack Volatility, 250°C, 1hr,%wt. Evap.	2.8	DIN 51581
Color	<0.5	ASTM D-1500
Appearance	Clear/bright	Observation
OTHER PROPERTIES*		
Viscosity, cSt, 125°C	4.9	ASTM D-445
Viscosity, cSt, 150°C	3.3	ASTM D-445
Viscosity, cSt, 200°C	2.1	ASTM D-445
Viscosity, cSt, -18°C	1,605	ASTM D-445
Viscosity Index	136	ASTM D-2270
Brookfield Viscosity, cP, -40°C	16,920	IP-267
Cold Cranking Simulator, cP, -25°C	3,100	
Density (lb/gal)	6.93	
DSC, Oxidative Onset Temperature, °C	191	
DSC, Energy kJ/g	13.8	
Dielectric Constant, 23°C, 1.0 and 1,000 KHz	2.122	
Molecular Weight	596	GC (Calculated)
Aniline Point, °C (°F)	123.3 (254)	ASTM D-611

*Note: Not a Sales Specification. Data based upon testing of randomly selected lots of product

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