

Durasyn[®] 164 Polyalphaolefin

Durasyn[®] 164 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	3.9	ASTM D-445
Viscosity, cSt, 40°C	17.4	ASTM D-445
Viscosity, cSt, -40°C	2,704	ASTM D-445
Pour Point, °C	-68	ASTM D-97
Flash Point, °C	222	ASTM D-92
Specific Gravity, 15.6/15.6°C (60/60°F)	0.819	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	11	ASTM D-3401
Noack Volatility, 250°C, 1hr,%wt. Evap.	13.2	CEC L 40-A-93
Color	<0.5	ASTM D1500
Appearance	Clear/bright	Observation
OTHER PROPERTIES*		
Viscosity, cSt, 125°C	2.6	ASTM D-445
Viscosity, cSt, 150°C	1.9	ASTM D-445
Viscosity, cSt, 200°C	1.3	ASTM D-445
Viscosity, cSt, -18°C	341	ASTM D-445
Viscosity Index	124	ASTM D-2270
Brookfield Viscosity, cP, -40°C	2,100	IP-267
Cold Cranking Simulator, cP, -25°C	490	
Density (lb/gal)	6.81	
DSC, Oxidative Onset Temperature, °C	192	
DSC, Energy kJ/g	12.1	
Dielectric Constant, 23°C, 1.0 and 1,000 KHz	2.102	
Molecular Weight	443	GC (Calculated)
Aniline Point, °C (°F)	116.7 (242)	ASTM D-611

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

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