

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	SPEC. RANGE	TYPICAL	TEST METHOD
Viscosity, cSt, 100°C	3.8-4.1		ASTM D-445
Viscosity, cSt, -40°C	2,800 max	2,626	ASTM D-445
Pour Point, °C	-65 max		ASTM D-97
Flash Point, °C	204 min		ASTM D-92
Specific Gravity, 15.6/15.6°C (60/60°F)	0.810-0.830		ASTM D-4052
Bromine Number, g Br ₂ / 100 g	0.4 max		IP-129
Total Acid Number, mg KOH/g	0.01 max		ASTM D-974
Moisture, ppm	25 max		ASTM D-3401
Noack Volatility, 250°C, 1hr, %wt. Evap.	14.0 max		DIN 51581
Color	0.5 max		ASTM D1500
TYPICAL PROPERTIES*			
Appearance		Clear/bright	Observation
Viscosity, cSt, 40°C		16-18.5	ASTM D-445
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	
Cold Cranking Simulator, cP, -25°C		490	
Density (lb/gal)		6.81	
Molecular Weight		443	GC (Calculated)
DSC, Oxidative Onset Temperature, °C		192	
DSC, Energy kJ/g		12.1	
Aniline Point, °C (°F)		116.7 (242)	ASTM D-611
Dielectric Constant, 23°C, 1.0 and 1,000 KHz		2.102	

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

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