

## Durasyn® 170 Polyalphaolefin

Durasyn® 170 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	9.8	ASTM D-445
Viscosity, cSt, 40°C	65.1	ASTM D-445
Viscosity, cSt, -40°C	35,509	ASTM D-445
Pour Point, °C	-51	ASTM D-97
Flash Point, °C	277	ASTM D-92
Specific Gravity, 15.6/15.6°C (60/60°F)	0.836	ASTM D-4052
Bromine Number, g Br <sub>2</sub> / 100 g	0.2	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.	2.4	DIN 51581
Color	<0.5	ASTM D1500
Appearance	Clear/bright	Observation
OTHER PROPERTIES*		
Viscosity, cSt, 125°C	5.8	ASTM D-445
Viscosity, cSt, 150°C	3.9	ASTM D-445
Viscosity, cSt, 200°C	2.4	ASTM D-445
Viscosity, cSt, -18°C	2,770	ASTM D-445
Viscosity Index	133	ASTM D-2270
Density (lb/gal)	6.97	
DSC, Oxidative Onset Temperature, °C	191	
DSC, Energy kJ/g	13.6	
Dielectric Constant, 23°C, 1.0 and 1,000 KHz	2.130	
Molecular Weight	690	GC (Calculated)
Aniline Point, °C (°F)	132.2 (270)	ASTM D-611

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

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