

# Durasyn<sup>®</sup> 170 Polyalphaolefin

Durasyn<sup>®</sup> 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	SPEC. RANGE	TYPICAL	TEST METHOD
Viscosity, cSt, 100°C	9.4-10.2		ASTM D-445
Viscosity, cSt, -40°C	50,000 max		ASTM D-445
Pour Point, °C	-45 max		ASTM D-97
Flash Point, °C	250 min		ASTM D-92
Specific Gravity, 15.6/15.6°C (60/60°F)	0.834-0.838		ASTM D-4052
Bromine Number, g Br/ 100 g	1.0 max		IP-129
Total Acid Number, mg KOH/g	0.01 max		ASTM D-974
Moisture, ppm	35 max		ASTM D-3401
Noack Volatility, 250°C, 1hr, %wt. Evap.	3.5 max		DIN 51581
Color	0.5 max		ASTM D1500
TYPICAL PROPERTIES*			
Appearance		Clear/bright	Observation
Viscosity, cSt, 40°C		62-69	ASTM D-445
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	
Molecular Weight		690	GC (Calculated)
DSC, Oxidative Onset Temperature, °C		191	
DSC, Energy kJ/g		13.6	
Aniline Point, °C (°F)		132.2 (270)	
Dielectric Constant, 23°C, 1.0 and 1,000 KHz		2.130	

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

Technical information contained herein is furnished without charge or obligation, and are given and accepted at the recipient's sole risk. Reasonable efforts were made to verify this information, however, as conditions of use are beyond our control, INEOS Oligomers makes no representation about and is not responsible or liable for the accuracy or reliability of such data, the results obtained therefrom nor toxicological effects of the material(s) described herein or Industrial Hygiene requirements associated with particular uses of any product described herein. Nothing contained in this document shall be considered a recommendation for any use that may infringe patent rights, or an endorsement of any particular material, equipment, service, or other item not supplied by INEOS Oligomers. The "Properties" and "Applications" listed in this document are not specifications. They are provided as information only and in no way modify, amend, enlarge, or create any specification or warranty, and ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE ARE EXCLUDED.

The name Durasyn is a trademark of INEOS USA LLC and its member companies.