

Product Datasheet

Durasyn[®] 156

Durasyn 156 polyalphaolefin is a fully synthesized distilled and hydrogenated hydrocarbon base fluid produced from C1214 linear alphaolefin feed stocks. Its engineered physical and performance properties are designed to extend the service life and enhance the performance of fully formulated lubricants operating under continuous low, high or wide temperature range conditions.

Features and Benefits

- Inherently thermally stable** ⇒ Resistant to thermal break down under non-routine high temperature excursions.
- Inherently oxidation resistant** ⇒ Extended replacement or reapplication cycles
- Engineered inherent low volatility** ⇒ Minimal top-off and reduced contamination of system components exposed to vapors
- Engineered to be highly shear stable** ⇒ Maintains viscosity grade over extended service life intervals
- Designed-in broad range viscometrics** ⇒ Suitable for exposure to low or high start-up or operating temperatures, or operation over wide temperature ranges

Intended Applications

Durasyn 156 is engineered for use in a wide variety of applications where the physical and performance properties of fully synthesized PAOs could be beneficial including:

- Reciprocating engine oils
- Gas and steam turbine oils
- Hydraulic and circulating oils
- Transportation and Industrial Oils

Compatibility

Durasyn 156 has been engineered to be either near or direct substitutes for existing PAO base oils and premium quality mineral oils. Compatibility with metals, elastomers, coatings and sealants is similar to other fully synthesized PAO base oils. Solubility is also similar to other fully synthesized PAO base oils.

TYPICAL PROPERTIES

Property	Test Method ISO/ASTM or	Unit Value	Unit Range
Specific Gravity , 15.6°C (60°F), kg/l (LB/gal)	12185 / D4052	0.828	0.810 – 0.840
Viscosity Index	2909 / D2270	145	140 min
Viscosity , mm ² /s (cSt), 100°C (212°F)	3104 / D445	6.1	5.8 – 6.3
Viscosity , cSt, mm ² /s (cSt), 40°C (104°F)	3104 / D445	32.0	28.0 - 34.0

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TYPICAL PROPERTIES (Continued)

Property	Test Method ISO/ASTM or	Unit Value	Unit Range
Cold Cranking Simulator, mPa • s (cP),	-- / D5293		
-30°C		2,300	N/D
-35°C		3,880	N/D
Pour Point, °C (°F)	3016 / D97	-36	-33 max
Flash Point, °C (°F)	2592 / D92	250/500	245 – 473
Noack Volatility, 250°C, 1hr,%wt. Evap.	CEC L-40-A-93	7.0	9.0 max
Neutralizing Number (TAN), mg KOH/g	6618 / D974	0.005	<0.01 max
Air Release,min.		< 1	<1
Bromine Number, g Br/100 g	--/ IP-129	0.20	0.4 max
Aniline Point, °C		133.4	-
Appearance		Clear/Bright	Observation
Color	2049 / D1500	<0.5	0.5 max
Refractive Index @ 20°C		1.4593	1.4593 +/- 0.0008
% Transmission @ 440 nm		99	>98

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