

Product Datasheet

Durasyn[®] 164X

Durasyn 164X polyalphaolefin is a fully synthesized distilled and hydrogenated hydrocarbon base fluid produced from specific linear proprietary alphaolefin feed stocks. Its engineered physical and performance properties are designed to enhance the performance of fully formulated lubricants operating under continuous low, high or wide temperature range conditions.

Features and Benefits

- | | |
|--|--|
| Thermally stable | ⇒ Resistant to thermal break down under non-routine high temperature excursions. |
| Oxidation resistant/Hydrolytically Stable | ⇒ Extended replacement or reapplication cycles |
| Acceptable vol. for such viscosity | ⇒ Minimal top-off and reduced contamination of system components exposed to vapors |
| 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 164x is engineered for use in a wide variety of applications where the physical and performance properties of fully synthesized PAOs could be beneficial including:

- Automatic Transmission Fluids
- Engine oils
- Hydraulic oils
- Industrial Oils

Compatibility

Durasyn 164x 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	0.8206	0.81 – 0.83
Viscosity Index	2909 / D2270	124	120 min
Viscosity , mm ² /s (cSt), 100°C (212°F)	3104 / D445	4.05	3.8 – 4.1
Viscosity , cSt, mm ² /s (cSt), 40°C (104°F)	3104 / D445	18.2	16 - 18.7
Viscosity , cSt, mm ² /s (cSt), - 40°C (- 40°F)	3104 / D445	2700	3000 max

Product Datasheet

TYPICAL PROPERTIES (Continued)

Property	Test Method ISO/ASTM or	Unit Value °C/°F	Unit Range
Cold Cranking Simulator , mPa • s (cP),	-- / D5293		
-30°C		800	N/D**
-35°C		1350	N/D
Pour Point , °C (°F)	3016 / D97	- 63	-60 max
Brookfield Viscosity @ - 40°C mPa.S	267/ D2983	2150	<2500
Flash Point , °C (°F)	2592 / D92	212	204 min
Noack Volatility , 250°C, 1hr,%wt. Evap.	CEC L-40-A-93	13.5	14 max
Neutralizing Number (TAN) , mg KOH/g	6618 / D974	0.002	<0.01 max
Air Release ,min.		< 20s	<1
Bromine Number , g Br/100 g	--/ IP-129	0.2	0.4 max
Appearance		Clear/Bright	Observation
Color	2049 / D1500	<0.5	0.5 max
Refractive Index @ 20°C		1.4556	1.4556 +/- 0.0008
% Transmission @ 440 nm		99	>98

** Not determined

Technical information and/or assistance contained herein and/or a sample(s) provided in conjunction with the correspondence, 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 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. Any sample(s) provided in conjunction with this correspondence is considered to be in the developmental stage, and the characteristics of any subsequent product delivered may vary from the characteristics of the product enclosed. NO WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY OR FITNESS FOR PARTICULAR PURPOSE, ARE MADE HEREIN OR BY THE PRODUCT PROVIDED. Nothing contained herein shall constitute a permission or recommendation to practice any invention covered by a patent without a license from the owner of the patent.

Review the companion Material Safety Data Sheet (MSDS) for pertinent information regarding the safe use and handling of this product. Information contained in this bulletin is the property of INEOS and may not be redistributed to third parties or posted to a Web site.