



Texol Hydrosyn™ HD-X 15

Technical Data Sheet

Texol Hydrosyn™ HD-X 15

Ultimate performance fire resistant hydraulic fluids

Product Description

Texol Hydrosyn™ HD-X 15 severe service hydraulic fluid is high quality mineral based and formulated with high performance and extremely shear stable additive systems, designed to deliver advanced multi-grade viscosity performance across a very wide range of temperatures, in arduous operating conditions.

This high performance heavy-duty fluid technology provides Premium anti-wear protection and oxidation resistance across a superior operating temperature window maximising system protection under high shear conditions, and at the extremes of ambient and operating temperature.

Texol Hydrosyn™ HD-X 15 is a very high level of cleanliness and possesses improved fluid properties. Texol Hydrosyn™ HD-X 15 contains additives which provide excellent low temperature fluidity as well as exceptional anti-wear, oxidation corrosion inhibition and shear stability.

This high performance system protection is enhanced by leading edge rust and corrosion protection technologies, advanced foam suppression systems, and outstanding rapid air release properties. In addition metal de-activators and foam inhibitors are included in this high viscosity index fluid to enhance performance in hydraulic applications.

Applications and Uses

Texol Hydrosyn™ HD-X 15 is intended as a hydraulic fluid in all modern aircraft applications requiring a mineral hydraulic fluid. Texol Hydrosyn™ HD-X 15 is particularly recommended where use of a cleanliness fluid can contribute to improvements in component reliability and can be used in aircraft systems operating unpressurised between -65°C to 180°C and pressurised between -65°C to 200°C.

Recommended for use in all high-performance, heavy duty hydraulic systems, under a wide range of environmental and operating temperatures, including high speed, high-pressure vane and gear pumps, and axial piston pumps. Excellent compatibility with bronze, steel and silver-plated components.

Texol Hydrosyn™ HD-X 15 should be used in systems with synthetic rubber components and must not be used in systems incorporating natural rubber.

Texol Hydrosyn™ HD-X 15 is compatible with other Texol Hydrosyn™ HD-X series.



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Typical Properties

Property (Unit)	HD-X 15	Method
Density at +15 °C	0.950	DIN 51757
Viscosity @40°C, cSt	15.50	DIN 51550
Viscosity @100°C, cSt	6.19	DIN 51550
Viscosity @ -40°C, cSt	381	DIN 51550
Viscosity @ -60°C, cSt	1510	DIN 51550
ISO Viscosity Grade	15	DIN 51519
Viscosity Index	218	DIN ISO 2909
Flash Point, °C	220	DIN ISO 2592
Auto-ignition temperature, °C	255	ASTM E659
Pour Point, °C	-65	DIN ISO 3016
Total acid number mgKOH/g	0.01	
Evaporation loss 6 hrs @ 71°C	11	
Water content, ppm	60	
Steel corrosion	0	
Cu corrosion, 3h, 100°C	1b	
Shear stability, viscosity change @ 40°C	Passes	
Low temperature stability @ - 65°C	Passes	

Specifications

- MIL-PRF 5606H
- DEF STAN 91-48 Grade Normal
- DCSEA 415/A
- H-515 / H-520

Notes for Use

- Please observe the viscosity specified by the manufacturer.
- Good compatibility with conventional sealing materials.
- When changing over from mineral oil to Texol Hydrosyn™ HD-X 15 oil filters have to be monitored and – if necessary exchanged or cleaned