

Technical Data Sheet

Texol Hydosyn™ HFDU Series

Super high performance fire resistant hydraulic fluid

Product Description

Texol Hydosyn™ HFDU is a highly advanced synthetic hydraulic fluid designed to maximise fire resistance and meets and exceeds 7th Luxembourg Report requirements. The fully synthetic ester based fluid delivers outstanding and highly stable high viscosity index performance and stays in grade in demanding high temperature operations, over a very long service period.

Texol Hydosyn™ HFDU delivers maximum safety in high temperature operations, where hot surfaces or flame may otherwise be a source of ignition for conventional hydraulic fluids, or where the risk of fire due to high-pressure fluid release is of concern.

Texol Hydosyn™ HFDU leading edge anti-oxidation additive technologies deliver exceptional performance at elevated temperatures, resisting the formation of sludge and other oxidative products, and allowing for significantly increased system operating pressures and operating sensitivity while significantly improving filter efficiency.

Texol Hydosyn™ HFDU additive technologies deliver superior protection against shearing and wear over extended operating periods, optimising oil film durability and offering maximum equipment protection in very hot or very wet operations. This advanced fluid provides outstanding hydrolytic stability, and rapid water separation, resisting rust or corrosion formation.

Applications and Uses

Recommended for use where high temperature surfaces, flame or other sources of ignition would cause fire in conventional mineral hydraulic fluids, or where the risk of fire due to high pressure fluid release is concern.

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Typical Properties

Property (Unit)	HFDU 32	HFDU 46	HFDU 68	Method
Density at +15 °C	923	976	979	DIN 51757
Viscosity @40°C, cSt	30.5	45.7	65.6	DIN 51550
Viscosity @100°C, cSt	5.81	9.41	10.28	DIN 51550
ISO Viscosity Grade	32	46	68	DIN 51519
Viscosity Index	187	195	207	DIN ISO 2909
Flash Point, °C	320	330	330	DIN ISO 2592
Pour Point, °C	-38	-35	-32	DIN ISO 3016
Four ball weld load, N	1500	1500	1500	DIN 51350-02
Steel corrosion	0	0	0	DIN 51585
FZG test (A/8.3/90)		>12		DIN 51354

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 Hydosyn™ HFDU oil filters have to be monitored and – if necessary exchanged or cleaned