



Texol Hydrosyn™ HD Series

Technical Data Sheet

Texol Hydrosyn™ HD Series

Advanced, high durability hydraulic fluids

Product Description

Texol Hydrosyn™ HD hydraulic fluids combine advanced, high quality solvent refined base stocks with latest technology additive systems, maximising oxidation protection in high speed, high-pressure vane and gear pumps, and the critical bronze-on-steel components in axial piston pumps.

These advanced fluids contain extremely stable anti-wear additive technologies, delivering the highest levels of system protection in highly stressed hydraulic systems, and offer optimum foam suppression performance in demanding high-speed operations.

These high performance fluids are extremely stable in the presence of water and deliver excellent protection in humid or very wet operations, rapidly shedding water for separation, and maximising filterability over very long operating periods. This highly effective hydrolysis prevention delivers outstanding rust and corrosion protection, optimising operational performance and equipment protection, and meets and exceeds AFNOR NF E 48-690 dry and NF E 48-691 wet filterability tests.

Applications and Uses

Recommended for use in all high-performance, heavy duty hydraulic systems, including high speed / pressure vane and gear pumps, and axial piston pumps. Excellent compatibility with bronze and steel components and all types of valves and servos.

Texol Hydrosyn™ HD 100 – 150 meet the requirements of ANSI/AGMA 9005 E-02 for hydraulic and vacuum pump lubrication as rust and oxidation inhibited lubricants

Approvals

- | | |
|--------|---------------------------------|
| • ASTM | D6158 Class HM (ISO 10-150) |
| • DIN | 51524 part 2 HLP (ISO 10-150) |
| • ISO | 11158 Class HM (ISO 10-150) |
| • SAE | MS1004 MS (ISO 22-100) |

Specifications

- | | |
|----------------------|--|
| • Cincinnati Machine | P68 (ISO 32), P70 (ISO 46), P69 (ISO 68) |
| • Bosch Rexroth | RE 90 220 (ISO 22-100) |
| • US Steel | 136,137 |



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Typical Properties

Property (Unit)	HD 15	HD 22	HD 32	HD 37	HD 46	HD 68	HD 100	HD 150	Method
Density at +15 °C	830	865	870	875	875	880	890	895	DIN 51757
Viscosity @40°C, cSt	15	22	32	37	46	68	100	150	DIN 51550
Viscosity @100°C, cSt	3.26	4.29	5.47	6.20	6.90	8.68	10.75	14.50	DIN 51550
ISO Viscosity Grade	15	22	32	37	46	68	100	150	DIN 51519
Viscosity Index	105	100	107	107	103	100	96	101	DIN ISO 2909
Flash Point, °C	182	196	224	225	228	248	255	250	DIN ISO 2592
Pour Point, °C	-28	-30	-36	-33	-33	-33	-29	-29	DIN ISO 3016
Four ball weld load, N	1500	1500	1500	1500	1600	1600	1600	1600	DIN 51350-02
Steel corrosion	0	0	0	0	0	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 Hydrosyn™ HD oil filters have to be monitored and – if necessary exchanged or cleaned