



Texol Hydrosyn™ HD-F Series

Technical Data Sheet

Texol Hydrosyn™ HD-F Series

EP hydraulic oils with deterging characteristics, HVLP-D

Product Description

Texol Hydrosyn™ HD-F are hydraulic oils for hydraulic systems which require lubricants with a high cleaning effect and emulsifiability with water.

Texol Hydrosyn™ HD-F oils exceed the requirements on high-pressure behavior of hydraulic oils of the category HVLP-D according to DIN 51524 part 3.

Applications and Uses

- Hydraulic systems with condensed and rain water mixtures
- Hydraulic systems which require cleaning ability as well as emulsifiability of the oil
- Machine tools where metal working fluids could leak into the hydraulic
- Hydraulic systems with electric multi-disk clutches, for short shifting periods and low wear of multi-disks
- Approved by Zahnradfabrik Friedrichshafen

Advantages

- Excellent emulsifiability
- Outstanding cleaning ability, loosens deposits
- Prevents stick-slip
- High load carrying capacity
- Protects against wear and corrosion
- Optimum foaming characteristics, good air release property
- High aging stability
- Excellent viscosity-temperature behavior

Approvals

- | | |
|---------------------------------|------------------------------------|
| • ASTM | D6158 Class HM (ISO 10-150) |
| • DIN | 51524 part 3 HVLP-D (ISO 10-150) |
| • ISO | 11158 Class HM (ISO 10-150) |
| • Zahnradfabrik Friedrichshafen | |

The statements made in this publication are according to our present knowledge. They do not absolve the user from own examinations. A legally binding assurance of certain properties or suitability for a specific use can no be derived from our statements. Possibly existing laws and regulations concerning the handling and use of our products have to be observed by the receiver of our products himself.



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Typical Properties

Property (Unit)	HD-F 15	HD-F 22	HD-F 32	HD-F 46	HD-F 68	HD-F 100	HD-F 150	Method
Density at +15 °C	870	875	882	883	882	878	875	DIN 51757
Viscosity @40°C, cSt	16	23.20	33.16	47.95	69.10	100.8	152.85	DIN 51550
Viscosity @100°C, cSt	3.29	4.31	5.54	7.07	8.75	11.30	15.25	DIN 51550
ISO Viscosity Grade	15	22	32	46	68	100	150	DIN 51519
Viscosity Index	155	151	149	147	145	146	145	DIN ISO 2909
Flash Point, °C	208	218	224	236	245	247	253	DIN ISO 2592
Pour Point, °C	-42	-40	-39	-39	-38	-32	-30	DIN ISO 3016
Four ball weld load, N	1600	1600	1600	1600	1700	1800	1900	DIN 51350-02
Steel corrosion	0	0	0	0	0	0	0	DIN 51585
FZG test (A/8.3/90)	>12							DIN 51354
Foaming characteristics at, ml								
+25°C / +77°F	0/0							ASTM D 892
+95°C / +203°F	20/0							ASTM D 892

Notes for Use

- Please observe the viscosity specified by the manufacturer.
- Hydrosyn HD-F are compatible with all conventional sealing materials.