



Castrol Hyspin DSP Range

Detergent Hydraulic Oil

Description

The Castrol Hyspin™ DSP Range are Zinc free Extreme Pressure and Antiwear hydraulic oil based on mineral oil.

Application

For hydraulics operating under high pressures and temperatures and additional high requirements on the deterging properties.

Advantages

- Fulfills the requirements of DIN 51 524, Teil 2 - HLP, DIN 51 517, Part 3-CLP, ISO 6743/4-L-HM and Müller Weingarten specification
- Formulated without heavy metals.
- High protection against wear under mixed friction conditions (Brugger-value > 45 N/mm² and FZG-A/8.3/90, scoring load stage > 12)
- High thermal stability.
- Reliable corrosion protection.
- Excellent oxidation stability.
- Good emulsifying and detergency properties.
- Excellent air separation capability.
- Excellent filterability.
- Good low temperature behaviour.
- General good compatibility with elastomers.
- Free of silicone.

Typical Characteristics

Name	Method	Units	Hyspin DSP 10	Hyspin DSP 15	Hyspin DSP 22	Hyspin DSP 32	Hyspin DSP 46	Hyspin DSP 68
ISO Viscosity Grade	-	-	10	15	22	32	46	68
Relative Density at 15°C	ISO 12185, ASTM D4052	g/ml	0.85	0.85	0.87	0.87	0.88	0.88
Kinematic Viscosity at 40°C	ISO 3104, ASTM D445	mm ² /s	10	15	22	32	46	68
Kinematic Viscosity at 100°C	ISO 3104, ASTM D445	mm ² /s	2.6	3.2	4.3	5.4	6.8	8.7
Viscosity Index	ISO 2909, ASTM D2270	-	-	-	100	102	102	100
Flash Point, COC	ISO 2592, ASTM D92	°C/ °F	150/ 302	175/ 347	205/ 401	215/ 419	240/ 464	245/ 473
Pour Point	ISO 3016, ASTM D97	°C/ °F	-36/ -33	-33/ -27	-33/ -27	-30/ -22	-30/ -22	-30/ -22
Air Release at 50°C	ISO 9120, ASTM D3427	mins	3	3	4	5	6	9
Foam Sequence 1 (tendency/stability)	ISO 6247, ASTM D892	mls	50/0	50/0	50/0	50/0	50/0	50/0
Rust Test (24hrs synthetic sea water)	ISO 7210, ASTM D665B	-	Pass	Pass	Pass	Pass	Pass	Pass

The above figures are typical of those obtained with normal production tolerance and do not constitute a specification.

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