



## Castrol Hyspin HT 46

Synthetic Hydraulic Oil

### Description

Castrol Hyspin HT 46 is a synthetic hydraulic lubricant based on polyalpha-olefin (PAO) fluid and an ashless (zinc free) additive system, formulated to work in hydraulic systems operating under strict conditions.

### Application

Castrol Hyspin HT 46 has been formulated for hydraulic systems working at high pressure and elevated temperature. The outstanding oxidation and thermal stability of Hyspin HT 46 allows oil change intervals to be extended over conventional mineral based lubricants. This allows demonstrable savings to be made by reducing the level of maintenance, storage and disposal required. These costs are particularly onerous for machines in continuous or seed-continuous production, like extrusion press or plastic blow moulding, and those for the moulding of ceramic tiles. Castrol Hyspin HT 46 is fully compatible with elastomer materials commonly used for static and dynamic seals, such as nitrile, silicone and fluorinated (e.g. Viton) polymers.

Hyspin HT 46 surpasses the requirements of DIN 51524 Part 3.

### Advantages

- Inherently high viscosity index (VI) means the product is suitable for applications operating over a wide temperature range.
- Good thermal and oxidative stability provides reliable performance and extended oil life with respect to the best mineral hydraulic oils, particularly in high temperature and pressure applications.
- Zinc free anti-wear technology means minimal deposit formation giving a cleaner system and reduced frequency of filter changes.
- Excellent water separation and hydrolytic stability means reduced down time through prolonged lubricant life and increased equipment reliability.
- Excellent filterability characteristic enables cost savings to be made from increased filter life and reduced maintenance.

## Typical Characteristics

Name	Method	Units	Hyspin HT 46
ISO Viscosity Grade	-	-	46
Density at 15°C	ISO 12185, ASTM D4052	g/ml	0.833
Kinematic Viscosity at 40°C	ISO 3104, ASTM D445	mm <sup>2</sup> /s	44
Kinematic Viscosity at 100°C	ISO 3104, ASTM D445	mm <sup>2</sup> /s	7.8
Viscosity Index	ISO 2909, ASTM D2270	-	144
Flash Point, PMCC	ISO 2719, ASTM D93	°C/ °F	213/ 415
Pour Point	ISO 3016, ASTM D97	°C/ °F	-35/ -31
Rust Test (24hrs, distilled water)	ISO 7210, ASTM D665A	-	Pass
Rust Test (24hrs synthetic sea water)	ISO 7210, ASTM D665B	-	Pass
Copper Corrosion (3hrs at 100°C)	ISO 2160, ASTM D130	-	1
FZG Gear Failure Load Stage (A/8.3/90)	DIN 51354	-	12

Subject to usual manufacturing tolerances.

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