



## Product Data

### Castrol® Hyspin™ AWS

Anti-wear hydraulic oil

#### Description

Castrol Hyspin™ AWS hydraulic oil range is based upon highly refined mineral oil enhanced with a stabilized zinc additive system.

#### Applications

Castrol Hyspin AWS has been specially formulated to provide good anti-wear and thermal stability, performance using the very latest additive technology. The careful blend of additives with a high quality base stock ensures that Hyspin AWS has excellent hydrolytic and oxidative stability while exhibiting a minimal tendency to produce sludge and deposits. In addition, Hyspin AWS provides corrosion protection to ferrous and yellow metal components found within a hydraulic system.

This range is designed for use in industrial hydraulic systems which require anti-wear protection. It is also suitable for other duties in which lubricants of high oxidation stability and lubrication performance are required, such as nitrite, silicone and fluorinated (e.g. Viton) polymers.

The Hyspin AWS range is fully compatible with elastomer materials commonly used for static and dynamic seals, such as nitrite, silicone and fluorinated (e.g. Viton) polymers.

Castrol Hyspin AWS is classified as follows:

DIN 51502 classification - HLP

ISO 6743/4 – Hydraulic Oils Type HM

#### Advantages

- Good thermal and oxidative stability leads to longer operating life, reduction in lubricant costs and minimizes deposit formation giving a cleaner system.
- Excellent anti-wear performance gives wear protection and reduces downtime from unscheduled maintenance.
- Good filterability characteristics (including in the presence of water) enable cost savings to be made from increased filter life and reduced maintenance.
- Excellent water separation and hydrolytic stability means reduced down time through prolonged lubricant life and increased equipment reliability.

#### Typical Characteristics

Test	Method	Unit	32W	46W	68W	100W
Density @ 15°C	ASTM D-4052	g/ml	0.88	0.88	0.88	0.89
Viscosity @ 40°C	ASTM D-445	cSt	32	46	68	100
Viscosity @ 100°C	ASTM D-445	cSt	5.44	6.82	8.77	11.28
Viscosity Index	ASTM D-2270		>95	>95	>95	>95
Flash Point, COC	ASTM D-92	°C	210	215	226	226
Pour Point	ASTM D-97	°C max.	-30	-27	-24	-21
FZG Fail Stage A8.3/90	ASTM D-51354		11	12	12	12
Foam Sequence I	ASTM D-892	ml	10/0	10/0	10/0	10/0

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

## Industry Specifications and OEM Approvals

DIN 51524 Part 2

Cincinnati Lamb (Milacron) P 68 – 69 – 70

Denison (Parker Hannafin) HF-0

US Steel 126 & 127

Eaton (formerly Vickers) I -286-S & M-2950-S

Bosch Rexroth RE90220

## User Advice

Based on available information, this product is not expected to produce adverse effects on health when used for the applications referred to above and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. MSDSs are available upon request through your sales contact office, or via the internet at [www.castrol.com](http://www.castrol.com). This product should not be used for purposes other than the applications referred to above. If disposing of used product, take care to protect the environment, return used oil to collection center.

## Storage

All packages should be stored under cover. Where outside storage is unavoidable drums should be laid horizontally to avoid the possible ingress of water and the obliteration of drum markings. Products should not be stored above 60°C, exposed to hot sun or freezing conditions.

Product Data– Hyspin AWS

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