

# Product data

## CASTROL HYSPIN AWS HYDRAULIC OILS

### Product Description

The Castrol Hyspin AWS Hydraulic Oil range has been formulated using premium mineral base stocks and incorporates the latest low zinc additive technology to provide outstanding anti-wear properties and thermal stability performance. The Castrol Hyspin AWS Hydraulic Oils have excellent hydrolytic stability providing

superior wet and dry filterability and wet and dry pump performance. The Castrol Hyspin AWS range effectively control sludge and deposit formation whilst providing excellent corrosion protection to the ferrous and yellow metal components within the hydraulic system.

### Applications

The Castrol Hyspin AWS Hydraulic Oils are available in a comprehensive range of viscosity grades; ISO 10, 22, 32, 46, 68, 100 and 150, to meet the requirements of most hydraulic systems. The excellent performance achieved by the Castrol Hyspin AWS Hydraulic Oil range is reflected in the ability of the product

to meet and exceed the requirements of major OEM's including Vickers and Denison (HFO). The appropriate viscosity grade Hyspin AWS oils are suitable for use in any hydraulic systems that require a DIN HLP or ISO HM antiwear hydraulic fluid.

### Features & Benefits

- Outstanding thermal and oxidation stability, effectively controlling sludge and deposit formation to provide longer product life, thus reducing lubrication and disposal costs.
- Superior wet and dry filterability, effectively maintaining a consistent flow throughout the system.
- Outstanding anti corrosion performance providing cleaner systems and greater metal component protection.
- Excellent water separation properties and minimal foaming tendencies.
- Excellent anti-wear performance providing component protection and extended component life.



## Product Specification

ISO 6734, HM DIN 51524 Part 2, DIN Class HLP+ Exceeds; Denison HFO and HFO* Cincinnati Milacron thermal stability "A" FZG (A/8.3/90) fail stage Vickers HP Vane Pump test (35VQ25) OEM Approvals Demag Komatsu GmbH	Hagglunds Drives AB MAN Maschinenfabrik Voith Turbo GmbH Co Denison (HFO and HFO*) Vickers Linde Lift Trucks  For a full list of OEM approvals against viscosity grade, please refer to the Technical Department.
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## Typical Chemical & Physical Data

	<u>Units</u>	<u>AWS</u>	<u>AWS</u>	<u>AWS</u>	<u>AWS</u>	<u>AWS</u>	<u>AWS</u>	<u>AWS</u>
		<u>10</u>	<u>22</u>	<u>32</u>	<u>46</u>	<u>68</u>	<u>100</u>	<u>150</u>
Kinematic Viscosity @ 40°C	mm <sup>2</sup> /s	10	22	32	46	68	100	150
Density @ 15°C	g/ml	0.878	0.878	0.878	0.882	0.882	0.885	0.89
Pour Point	°C	-39	-30	-30	-21	-21	-21	-8
Flash Point (Closed)	°C	160	170	200	200	220	220	220
Acidity	mgKOH/g	0.7	0.7	0.7	0.7	0.7	0.7	0.7
Dension Filterability								
Ratio (wet & dry)	(2 max)	1.3	1.3	1.3	1.3	1.3	1.3	1.3
ISO VG	-	10	22	32	46	68	100	150
FZG (A/8.3/90) fail stage	-	-	-	11	12	12	12	-

## Storage & Handling

<p>Lubricants should be stored in a cool dry environment away from direct sunlight and away from strong oxidising agents (i.e. class 5.1 or 5.2). Repeated or prolonged contact with lubricants and industrial oils should be avoided to reduce the possibility of skin disorders.</p>	<p>A high standard of personal hygiene should be maintained when handling lubricants. Mineral or synthetic oils should not be allowed to enter ground water, water courses, sewerage or drainage systems. Refer to local waste authority and dispose of lubricant in a responsible manner.</p>
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All reasonable care has been taken to ensure that the information contained in this data sheet is accurate at the date of printing. The information is liable to variation, however, due to changes occurring subsequently in the blend formulation, or in the requirements of any specifications or approval relating to any of the products. No responsibility is accepted for the consequences of incorrect storage or improper methods of handling or application of the products.

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