

Aero HF 585 B

Mineral hydraulic fluid

Description

Castrol Aero HF 585 B is a mineral oil based low viscosity hydraulic fluid which is intended for use in hydraulic systems where rapid system response is required, particularly at low temperatures. Castrol Aero HF 585 B is ideally suited to accumulator driven emergency control systems.

Castrol Aero HF 585 B is produced from low viscosity highly refined mineral basestock, shear stable viscosity index improver, antioxidants, corrosion inhibitors and anti-wear additives.

Application

Hydraulic systems operating at low ambient temperatures or driven by accumulators, such as Emergency Shut Down Valves and Watertight Door controls.

Approval Status

Castrol Aero HF 585B can be used where a fluid conforming to the following standards is required:

- DEF STAN 91-48/2
- Joint Services Designation OM-18
- MIL-PRF-5606H
- NATO H-515

Advantages

Castrol Aero HF 585 B is available globally and combines excellent protection with performance and versatility in Offshore operations to provide the following key benefits:-

- Excellent low temperature fluidity.
- Good viscosity characteristics over a wide temperature range.
- Good elastomer compatibility.
- Good compatibility with metals.

Typical Characteristics

Name	Method	Units	Aero HF 585 B
ISO Viscosity Grade			15
Kinematic Viscosity at 40°C	IP 71 / ASTM D445	mm ² /s	14
Kinematic Viscosity at 100°C	IP 71 / ASTM D445	mm ² /s	5.4
Kinematic Viscosity at -40°C	IP 71 / ASTM D445	mm ² /s	400
Kinematic Viscosity at -54°C	IP 71 / ASTM D445	mm ² /s	2200
Viscosity Index	IP226 / ASTM D2270		> 350
Relative Density at 15°C	IP 160	g/ml	0.87
Acidity	IP139 / ASTM D974	mgKOH/g	0.15
Pour Point	IP 15	°C	< -70
Closed Flash Point	IP 34 / ASTM D93	°C	100
Co-efficient of Cubical Expansion		°C ⁻¹	8.65 x 10 ⁻⁴
Adiabatic Tangent Bulk Modulus at 180°C		lb/in ² x 10 ⁵	0.90
Adiabatic Tangent Bulk Modulus at 100°C		lb/in ² x 10 ⁵	1.55
Adiabatic Tangent Bulk Modulus at 40°C		lb/in ² x 10 ⁵	2.25

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

Care and Handling

Avoid prolonged or repeated contact with skin. Wash thoroughly after handling.

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 600C, exposed to hot sun or freezing conditions.

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The Technology Centre, Whitchurch Hill, Pangbourne, Reading, RG8 7QR, United Kingdom

+44 (0)203 915 7991

www.castrol.com/globalbusiness