

Balmerol® Aqua Hydol 68 (HFB)

Fire Resistant Hydraulic Fluid

Technical Data Sheet

Product Description:

Balmerol Aqua Hydol 68 is a fire resistant hydraulic fluid of water in oil emulsion type conforming to IS 10532 (Part – II), 1983; reaffirmed to 1998 for physical properties and IS: 7895: 1975 for fire resistant characteristics. Balmerol Aqua Hydol 68 is to be used for underground machinery like SDLs and LHDs.

The product has good performance and would be compatible for use in all types of hydraulic pumps, seals, metals and other components found in hydraulic system which generally require mineral oil based hydraulic fluid. The water in oil emulsion consists of about 40% water in fine droplets in a 60% bulk oil phase. Water in internal phase imparts fire resistance property whilst, the oil in combination with very refined additive package provides good lubrication and good corrosion resistance property.

Features & Benefits:

Balmerol Aqua Hydol 68 (HFB) has fire resistance property and carries DGMS Approval.

Balmerol Aqua Hydol 68 (HFB) provides the following benefits:

- Small sized water droplet and greater emulsion stability makes ease to effective filterability
- Unique combination of emulsifier systems allows re-emulsification of condensed material while on contact with bulk fluid in reservoir
- Compatible with seals and hoses
- Superior multimetal compatibility
- Superior corrosion resistance property
- Superior anti-wear property
- Suitable for operation in wide temperature range - 50°C to + 65°C

Applications / Recommendations:

Balmerol Aqua Hydol 68 (HFB) is recommended for applications where there is a risk of fire due to leakage or spillage of hydraulic fluid from the equipment and requires HFB type oil.

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Typical Properties:

Balmerol Aqua Hydol 68 (HFB)	
Properties	Aqua Hydol 68 (HFB)
Colour & Appearance	Milky White
Fire Resistance Characteristics, IS: 7895 - 1975	Pass
Viscosity, IS 1448, P:25	
cst @ 40°C	61.2 -74.8
Specific Gravity	0.900 - 0.930
Water Content, %	40
Emulsion Stability at 70 ⁰ C for 48 hours	
Free oil, ml	2
Free water, ml	Nil
Foaming Stability, at 24 ⁰ C, ml	Nil
Rust preventing characteristics	Pass
Emulsion Stability, at 27 ± 2 ⁰ C for 1000 hours	
Free oil, ml	5
Free water, ml	Nil
Corrosion Resistance Tests 7 days @ 70 ⁰ C	
Copper	Pass
Brass	Pass
Silver	Pass
Cast iron	Pass
Aluminium	Pass
Steel	Pass
Pump Wear Test, ASTM D 2882	Pass

Health and Safety:

Balmerol Aqua Hydol 68 (HFB) is not expected to produce adverse effects on health when used for the intended application and the recommendations provided in the Material Safety Data Sheet (MSDS) are followed. For MSDS please contact your local Balmer Lawrie Marketing / Technical Service team.

For Further Information, contact:

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