



PRODUCT DATA SHEET

WB FIRE RESISTANT HYDRAULIC FLUID HFC 46

PRODUCT DESCRIPTION

Hi-Tec WB Fire Resistant Hydraulic Fluid HFC 46 is a fire resistant water glycol (HFC) fluid. It has been specially formulated for critical applications that require improved performance beyond that of a standard water glycol hydraulic fluid and can be used in high demand systems up to 350 Bar pressure to improve performance.

Hi-Tec WB Fire Resistant Hydraulic Fluid HFC 46 does not contain chlorinated hydrocarbons (PCBs and CFCs), polycyclic aromatics (PCAs, PNAs), phosphate esters, heavy metals and harmful or corrosive inorganic radicals. It is recommended for use in systems that require a fluid to be:

- Environmentally acceptable
- Fire resistant
- Functional over a wide temperature range

Hi-Tec WB Fire Resistant Hydraulic Fluid HFC 46 offers the lubrication level of premium, anti-wear hydraulic oils, and can be used with hydraulic components from all major manufacturers.

Hi-Tec WB Fire Resistant Hydraulic Fluid HFC 46 is to be used as received, and not diluted.

BENEFITS

- **Safety** - Outstanding Fire Resistance
 - Environmentally acceptable
- **Good Lubrication** - Low wear rate
 - High viscosity index
- **Long Life** - Excellent thermal and oxidation stability
 - Excellent hydrolytic stability
- **Low Cost** - Cost effective fluid
- **Australian Made** - Short lead times for any quantity

COMPATIBILITY

Pumps & Components: **Hi-Tec WB Fire Resistant Hydraulic Fluid HFC 46** can be used in virtually all industrial pumps at temperatures of 0°C to 65°C. Unlike some water glycols, pumps may not have to be derated as per manufacturer guidelines when converting mineral oil systems to **Hi-Tec WB Fire Resistant Hydraulic Fluid HFC 46**.

Seals, Hoses & Packing: Recommended sealing materials are Nitrile, Neoprene and butyl rubber, most but not all Viton, and ethylene propylene (EPDM) elastomers.

Buna S and polar elastomers such as Polyurethane should not be used.

Metals: **Hi-Tec WB Fire Resistant Hydraulic Fluid HFC 46** is compatible with most metals and alloys. Systems containing zinc, cadmium and magnesium need to be closely observed in condition monitoring as these generally have limited compatibility with high pH fluids.

Paints & Coatings: Water glycol fluids soften many paints and varnishes. It is recommended to use only vinyl resin and epoxy type paints for the external coating of hydraulic systems. Do not coat the internal surfaces of systems e.g. tanks.





PRODUCT DATA SHEET

Mineral Oil: Hi-Tec WB Fire Resistant Hydraulic Fluid HFC 46 fluid is not compatible with R & O and anti-wear mineral oil type fluids. To convert from a system using mineral hydraulic oil, consult your Hi-Tec representative who will detail the suitable changeover procedure for your system.

Phosphate Esters: Hi-Tec WB Fire Resistant Hydraulic Fluid HFC 46 fluid is not compatible with phosphate ester fluids. To convert from a system using phosphate ester fluid, consult your Hi-Tec representative who will detail the suitable changeover procedure for your system.

Water Based Products: Hi-Tec WB Fire Resistant Hydraulic Fluid HFC 46 fluid is generally miscible with water containing fluids, however mixing fluids is not recommended, as incompatible additives can cause sludge by-products and catastrophic failure. Consult your Hi-Tec representative prior to mixing any amount of water based fluids together.

Bearings: There are no restrictions on externally and internally lubricated bearings, ball, roller, sleeve and journal bearings. However needle bearings are not recommended.

Filters: Paper filters must be replaced with water resistant, or fiberglass filters. A 10- micron filter is adequate, and filters should be positioned between the pump outlet port (pressure side) and the reservoir return line.

FLUID MAINTENANCE

It is essential to perform periodic fluid maintenance to ensure the reserve alkalinity and water content is within recommended acceptable guidelines. Use only deionized or distilled water (Max 5 ppm hardness) for water make-up additions.

STORAGE

If the following criteria are adhered to, : **Hi-Tec WB Fire Resistant Hydraulic Fluid HFC 46** can be stored for at least six months.

Maximum recommended long-term storage temperature: 40°C.

Minimum recommended long-term storage temperature: 0°C.

Keep drums/containers tightly closed when not in use.

Store containers/drums in a dry and well ventilated area.

CHEMICAL AND PHYSICAL PROPERTIES

Property	Method	Results
Water Solubility		Soluble
Appearance	Visual	Clear/slightly hazy red
Kinematic Viscosity @ 40°C	ASTM D 445	48 - 51 cSt
Density @ 25°C	ASTM D 1298	1.045 - 1.060 g/cm ³
Reserve Alkalinity		15 - 21
Water Content	OL 1020	35 -38 %
pH	ASTM D 2766	8. 8 - 10.0
Particle Size Analysis	ISO 4406 / OL 1024	18/15/12 max / NAS 6 max
Contaminating Metals	OL 1011	5 ppm max



Hi-Tec Oil Traders Pty Ltd ABN 28 053 837 362

5 Tarlington Place Smithfield NSW 2164

Correspondence: P.O Box 322 Castle Hill NSW 1765

Ph: 1300 796 009 | Fax: (02) 9604 1611 | Email: hitecoils@hi-tecoils.com.au

www.hi-tecoils.com.au

PRODUCT DATA SHEET

Available in: 1000 Litres, 200 Litres

"Hi-Tec Oil Traders Pty Ltd (Hi-Tec Oils) has endeavoured to ensure that all information, representations and specifications contained in this product data sheet are accurate at the time of publication. This general information should be used in conjunction with appropriate inquiries by users of the product including consultation with the vehicle or equipment manufacturers published information.

It is the responsibility of users of the product to use the product safely. Users should consult the safety data sheets for each product at www.hi-tecoils.com.au. Hi-Tec Oils takes no responsibility for injury or damage if the product is used in an inappropriate or unsafe manner.

Our product warranty and product quality statement can be viewed at www.hi-tecoils.com.au"

Item code: HI8-

Effective: January 2012

Expires: January 2014

GH211032/ 2



AUSTRALIAN FAMILY OWNED SINCE 1989

