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

FIRE RESISTANT HYDRAULIC FLUID QA720

Description:

Hi-Tec Fire Resistant Hydraulic Fluid QA720 is a non-hazardous fire resistant water glycol (HFC) fluid. 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 Fire Resistant Hydraulic Fluid QA720 does not contain any of the following:

- Chlorinated hydrocarbons (PCBs, CFCs)
- Polycyclic aromatics (PCAs, PNAs)
- Phosphate esters
- Heavy metals
- Harmful or corrosive inorganic radicals

Benefits of Hi-Tec Fire Resistant Hydraulic Fluid QA720:

- Safety - Outstanding fire resistance
- Non-hazardous fluid
- Good lubrication - Low wear rate
- High viscosity index
- Long life - Excellent thermal and oxidation stability
- Excellent hydrolytic stability

Compatibility:

Pumps & Components: Hi-Tec Fire Resistant Hydraulic Fluid QA720 can be used in virtually all industrial pumps up to pressures of 210 bar and temperatures less than 60^{o}C. Like other water glycols, however, pumps will have to be de-rated according to manufacturers' guidelines when converting mineral oil systems to this fluid.

Seals, Hoses & Packing: Recommended sealing materials are nitrile, neoprene, ethylene propylene (EPDM), and butyl rubber. Not recommended are Viton (compression set with water based fluids), and polyurethane (high temperature softening).

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Metals: Hi-Tec Fire Resistant Hydraulic Fluid QA720 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: Many paints and varnishes are softened by water glycol fluids. It is recommended to use only vinyl resin and epoxy type paints for the external coating of hydraulic systems. Do not coat the internal surface of the tank.

Mineral Oil: Hi-Tec Fire Resistant Hydraulic Fluid QA720 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 Fire Resistant Hydraulic Fluid QA720 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 Fire Resistant Hydraulic Fluid QA720 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.

Storage:

If the following criteria are adhered to, **Hi-Tec Fire Resistant Hydraulic Fluid QA720** can be stored for at least six months.

Maximum recommended long-term storage temperature: 40℃.
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.

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Chemical and Physical Properties:

Parameter	Unit	Test Method	Typical Value
ISO grade			46
Appearance	-	-	Red Clear liquid
Specific Gravity	g/mL	ASTM D 1298	1.071
Water Content	%wt	ASTM E 203	45
Pour Point (oC)	℃	ASTM D 97	-48
Viscosity @ -10℃	cSt	-	477
Viscosity @ 0℃	cSt	-	263
Viscosity @ 20℃	cSt	-	99
Viscosity @ 40℃	cSt	-	46
Viscosity @ 50℃	cSt	-	33
Viscosity Index	-	-	200
pH	-	ASTM D 1278	9.5
Refractive Index (nD20)	-	DIN 51423	1.4
Reserve Alkalinity (mL 0.1N HC1/10g)	-	ASTM D 1121	12
Oxidised Ash	%	DIN 51575	0.35
Sulfated Ash	%	DIN 51575	0.5
Thermal Conductivity @ 20℃	-	ASTM D 2717	0.36
Specific Heat @ 20℃	-	ASTM D 2766	3.23
Fire Resistance Standard	-	6th Lux. Report	Pass
Air Release Value	-	IP 313	195 sec - Pass
Foam test (mL foam at 25℃)	-	ASTM D 892	60 - Pass
Seal swelling	-	6th Lux. Report	Pass
Shear stability	-	6th Lux. Report	Pass
Corrosion Pretection	-	CETOP R48H	Pass

AVAILABLE IN: 200 Litres, 20 Litres

"The facts stated and the recommendations made herein are believed to be accurate. No guarantee of their accuracy is made however, and unless otherwise expressly provided in written contract, the products are sold without conditions or warranties, expressed or implied. Purchasers should determine the suitability of such products for their particular purposes".

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