



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 620

#### PRODUCT DESCRIPTION

**Fire Resistant Hydraulic Fluid 620** has been developed as a maximum safety fluid for hydraulic use near open flame or high temperature areas.

A hazard exists wherever heat, molten metal or flame are near hydraulic equipment. Even a minute fracture in a line or fitting can send a combustible spray of oil into the heat source.

Severe injury, property damage, destruction of plant and machinery and production delays can be caused by the ensuing fire.

#### FEATURES

- High Degree of Fire Resistance
- Non-Explosive
- Corrosion Inhibited
- Good Lubricity
- High Viscosity Index - ISO 46 Viscosity
- Stable in Service
- Long Pump Life
- Long Term Economy
- Synthetic Rubber Packings not Affected
- HFC Classification

#### APPLICATIONS

**Fire Resistant Hydraulic Fluid 620** can be safely used in virtually every type of hydraulic equipment to help prevent fire danger. Typical applications include -

- Pressure Die-casting Machinery
- Coke Oven Door Mechanisms
- Forging and Extruding Pressures
- Glass Forming Machines
- Furnace Charging & Tilting Mechanisms
- Centrifugal Casting Machines
- Rod and Strip Coilers and Up-enders
- Foundry Machines
- Hoists and Elevators
- Billet, Bloom and Slab Casting Machines

#### OPERATING TEMPERATURE

It is recommended that the bulk fluid temperature is kept low to avoid excessive water evaporation. Maximum operating temperature should not exceed 60°C.

#### COMPATIBILITY

Hi-Tec recommends that wherever possible the customer conducts tests on the materials to be in contact with the **Fire Resistant Hydraulic Fluid 620**.

**Pumps & Components:** **Fire Resistant Hydraulic Fluid 620** can be used in virtually all industrial pumps up to pressures of 210 bar and temperatures less than 60°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, NBR, Buna N, ethylene propylene (EPDM), acrylonitrile-butadiene, hydrogenated nitrile (HNBR) and poly ether based



AUSTRALIAN FAMILY OWNED SINCE 1989





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](http://www.hi-tecoils.com.au)

## PRODUCT DATA SHEET

polyurethane rubber. Not recommended are fluorocarbon, FKM, Viton (compression set with water based fluids), butyl and polyester based polyurethane (high temperature softening) rubber.

**Metals: Fire Resistant Hydraulic Fluid 620** is compatible with most metals and alloys. Systems containing zinc, lead, cadmium and magnesium need to be closely observed in condition monitoring as these generally have limited compatibility with high pH fluids.

**Paints & Coatings:** Many common industrial oil-resistant paints and varnishes are softened by water glycol fluids. It is recommended to use only phenolic and epoxy type paints and vitreous enamel for the external coating of hydraulic systems. Do not coat the internal surfaces of the equipment.

### TYPICAL PROPERTIES:

Parameter	Unit	Typical Value
ISO grade	-	46
Appearance	-	Red Clear Liquid
Viscosity @ 10°C	cSt	168
Viscosity @ 20°C	cSt	100
Viscosity @ 40°C	cSt	43
Viscosity @ 60°C	cSt	22
Viscosity Index	cSt	>200
pH Value	-	9.5
Density @ 15°C	g/mL	1.08
Pour Point	°C	-51
Flash Point (ASTM D92)	-	None
Fire Point (ASTM D92)	-	None
Thermal Conductivity @ 25°C	Watts/m <sup>2</sup> (°C/m)	0.45
Specific Heat @ 25°C and 1013mbar	kJ/kg/°C	3.23
Normal Maximum Operating Temperature	°C	60
Compressibility @ 20°C	atm	3 x 10 <sup>5</sup>

**Available in:** 205 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](http://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](http://www.hi-tecoils.com.au)"

**Item Code:** HI5-2927

**Effective:** September 2020

MR029092/1



AUSTRALIAN FAMILY OWNED SINCE 1989

