

HOUGHTO SAFE 620

Premium Grade Fire Resistant Hydraulic Fluid (Type HFC – Water Glycol)

DESCRIPTION

HOUGHTO SAFE 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.

HOUGHTO SAFE 620 is a clear fluid of high lubricity incorporating additives which ensure long fluid life, excellent pump wear characteristics and protection against corrosion. Particular attention has been given to inhibiting against vapour phase corrosion. Our manufacturing plants and NATA approved laboratory facilities in Australia, maintain **HOUGHTO SAFE 620** to rigid quality control standards.

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**
- **H.F.C. Classification**

TYPICAL VALUES

Viscosity	10 ^o C	168 cSt
	20 ^o C	100 cSt
	40 ^o C	43 cSt
	60 ^o C	22 cSt
Viscosity Index		>200
Pour Point		-51 ^o C
pH Value		9.5
Density 15 ^o C (ASTM D1298) kg/l		1.08
Flash Point (ASTM D92)		None
Fire Point (ASTM D92)		None
Colour		Red
Specific Heat	3.4 kJ/kg ^o C @ 25 ^o C and	1013 mbar
Thermal Conductivity (m)		0.45 Watts/m ² (^o C/
Normal Maximum Operating Temp		0 ^o C
Compressibility 20 ^o C		3 x 10 ⁻⁵ /atm @
Bulk Modulus 20 ^o C		3.3 x 10 ⁴ atm @

HEALTH AND SAFETY

Refer to MSDS for proper handling and disposal. Please note that the MSDS includes handling, health and disposal information which should be passed on to your employees, and to anyone else who comes in contact with our product. Additional advice can also be obtained from your local Houghton representative.

NOTE: Read and understand all precautions on container labels before using this product.

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HOUGHTON™

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RECOMMENDED FILTRATION

To conform with good hydraulic practice, filtration should be incorporated. Accordingly filters should have a rated flow capacity of twice the rated capacity of the pump. On return 25 micron filters are recommended with minimum 60 mesh filters installed on the suction side. Zinc coatings should not be used on filter components

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

HOW TO USE

HOUGHTO SAFE 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

Ingot Manipulators C

Furnace Charging & Tilting Mechanisms
Centrifugal Casting Machines
Rod and Strip Coilers and Up-enders

Cranes

Foundry Machines

Hoists and Elevators

SHELFLIFE & AVAILABILITY

Under normal conditions the recommended shelf life for **PRODUCT** is a minimum of Twelve (12) months, unless otherwise specified.

PRODUCT is available in 205 litre drums. Other sizes may be available upon request, please contact your Houghton sales representative.

RELATED PRODUCTS

- CUT-MAX: Straight cutting oils
- HOCUT: Water miscible metalworking fluids
- DROMUS: Soluble metalworking fluids
- ADRANA: Micro-emulsion metalworking fluids
- METALINA: Synthetic metalworking fluids
- HOUGHTO-GRIND: Straight and water miscible grinding fluids
- HOUGHTO-DRAW: Straight and water miscible drawing stamping and forming fluids.
- CINDOL: Straight and water miscible drawing and forming fluids especially for Aluminium parts.
- CERFA-KLEEN: Water miscible cleaning fluids
- RUST VETO: Straight and water miscible rust preventive fluids.

FLUID MAINTENANCE

These can be routinely performed and organised through Houghton's Customer Service laboratory, please contact your sales representative for further information about this service.

Viscosity checks should be made from time to time wherever high temperature or other factor might cause the evaporation of water from the fluid. At the outset, monthly tests are recommended; these may subsequently be made less frequently if initial checks prove the viscosity level to be stable. All tests for kinematic viscosity should be carried out with the fluid at 40°C. Viscosity should be adjusted by the addition of the appropriate amount of distilled or deionised water as directed by the Houghton Customer Service Laboratory.

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