

# TECHNICAL DATA SHEET

## QH HOUGHTOSAFE™ 620 EP

### PREMIUM WATER-GLYCOL FIRE RESISTANT HYDRAULIC FLUID

QH HOUGHTOSAFE™ 620 EP is a high performance water-glycol hydraulic fluid (ISO 6743-4 TYPE HFC) that greatly reduces risk in areas of high fire hazard, while enhancing reliability of system components and minimizing maintenance and repair. QH HOUGHTOSAFE™ 620 EP has uniform composition and performance across all regions.

#### Applications

QH HOUGHTOSAFE™ 620 EP is particularly suited to those applications where people could be at risk in operations near flames, hot surfaces or molten metals. For example, in diecasting machines, continuous metal casters, furnace chargers & dischargers, ladle titling, rod, tube & strip mills, and applications in ship hydraulic mechanisms.

#### Recommendation for Use

Use neat, as supplied. In use, deionised water can be added to adjust viscosity, based on Quaker Houghton lab recommendation.

#### Health, Safety and Handling

Please consult the Safety Data Sheet (SDS) for information on storage, safe handling and disposal. The conditions or methods of handling, storage, use and disposal of the product are beyond our reasonable control - we assume no liability for any ineffectiveness of the product or any injury or damage, arising out of or in connection with these conditions.

#### The Benefits

- High security against fire, both as a potential ignition source or as a fuel for a fire
- Increased operator safety and high protection of assets
- Lower insurance premiums
- Equipment reliability
- Improved efficiency

#### Additional Product Data

- Highest lubricity of any HFC on the global market, <50 mg of weight loss in ASTM D 7043 vane pump test after 1000 hours at 140 bar. Many water-glycols suffer high wear rates after shorter test periods
- Low foam, low air entrainment, fast air release
- Excellent ferrous corrosion protection in liquid and vapor phases
- Doesn't form precipitates if potable waters get into the system
- 65% biodegradable OECD 301D



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### Properties

PROPERTY	TYPICAL VALUE	UNIT
Appearance	Red Transparent Liquid	
Density at 15.5°C	1.08	kg/dm <sup>3</sup>
Viscosity at 20°C at 40°C at 60°C ASTM D445	84 40 22	cSt
Viscosity Index ASTM D2270	221	
pH ASTM E70	10	
Pour Point ASTM D5950	< -45	°C
Air Release ASTM D3427	8	minutes
Foaming ASTM D892	10/0	ml
Corrosion – Liquid phase ASTM D665B	Pass	
Corrosion – Vapor phase ASTM D5534	Pass	
Flash Point ASTM D93	None	°C
Fire Point ASTM D92	None	°C
Weight Loss ASTM D7043	<50	mg

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