

## XL-5000

# LOW PRESSURE FIRE-RESISTANT WATER GLYCOL HYDRAULIC FLUID

**XL-5000** provides a safer working environment for those applications where hydraulic piping might rupture and spray fluid onto hot surfaces and ignite with resultant hazard to plant personnel and equipment.

**XL-5000** is a Group 1 Factory Mutual approved fluid and is approved by the Canadian Centre for Mineral and Energy Technology (CANMET) for use in underground mining applications.

| FEATURES  | BENEFITS   |
|---|--|
| <ul style="list-style-type: none"> <li>Lubricating agents provide good anti-wear characteristics</li> </ul>                                       | <ul style="list-style-type: none"> <li>Protects pumps and system components from premature wear</li> </ul>       |
| <ul style="list-style-type: none"> <li>Corrosion inhibited to protect ferrous and non-ferrous components; both liquid and vapor phases</li> </ul> | <ul style="list-style-type: none"> <li>Extends equipment life, reduces downtime and maintenance costs</li> </ul> |
| <ul style="list-style-type: none"> <li>More environmentally manageable than other fire-resistant fluids</li> </ul>                                | <ul style="list-style-type: none"> <li>More acceptable in today's environmentally conscious society</li> </ul>   |
| <ul style="list-style-type: none"> <li>Low pour point</li> </ul>  | <ul style="list-style-type: none"> <li>Ease of startup over a broad operating range</li> </ul>                   |

| TYPICAL SPECIFICATIONS                                 |              |
|--|--------------|
| <b>Product Code: XL-5000</b>                           |              |
| Colour   | Red          |
| Appearance   | Clear        |
| Water Content (% by weight) (ASTM D-1744)              | 38.0 - 40 .5 |
| Pour Point (°C) (ASTM D-97)                            | -50          |
| Viscosity (cSt @ 40°C) (ASTM D-445)                    | 41 - 48      |
| <b>CORROSION PROTECTION</b>                            |              |
| Reserve alkalinity (FLA 011)                           | 165 - 205    |
| pH (FLA 003)   | 9.0 - 10.0   |
| Multi-metal Corrosion Test (200 hrs)                   |              |
| <i>Liquid Phase (Brass, Cu, Al, Steel)</i>             | Pass         |
| <i>Vapour Phase (Steel, Cast iron)</i>                 | Pass         |
| <b>WEAR TESTING</b>                                    |              |
| Hydraulic Pump Test (mg wear/hr, 100hrs) (ASTM D-2882) | 0.60 - 0.80  |
| VICKERS 20-VQ-5 Pump Wear Test (Operating Parameters): |              |
| <i>Pump Pressure (PSI)</i>                             | 3000         |
| <i>Pump Speed (RPM)</i>                                | 1200         |
| <i>Temperature (°C)</i>                                | 65           |

| <b>TYPICAL SPECIFICATIONS</b>    |            |
|----------------------------------|------------|
| <i>Flow Rate (gpm)</i>           | 5          |
| <b>WATER CORRECTION MATERIAL</b> |            |
| Water                            | De-ionized |