

***PREMIUM
FIRE RESISTANT
HYDRAULIC FLUIDS***



***ONE STOP SOLUTION FOR ALL YOUR
LUBRICANT NEEDS***



No.10, Thattankulam Road,
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SIGMA FIRO SERIES (HFC)

Fire Resistant Hydraulic Fluids

Description

Sigma Firo series is a HFC water-glycol type hydraulic fluid. They contain around 40-45% of water and hence **excellent resistance to flammability**. It is blended with a formulation specially adapted to meet customer requirements in terms of lubrication, fire-resistance and biodegradability. It possesses good filterability adapted to the most recent technologies and excellent protection of elastomers, valves, pumps etc. Sigma Firo fluids are **biodegradable and classed as non-hazardous for the environment**. Excellent shear stability assures viscosity and fire-resistant properties are maintained during use.

Performance Standards:

Sigma Firo series meets the requirements of the **ISO 12922** standard.

Application:

Sigma Firo series fluids can be used in all industries where there is a major risk of fire and for all high-pressure installations designed to operate with this type of aqueous product.

Typical Characteristics:

| Parameter | Unit | Test Method | | | |
|-------------------------|------|-------------|------------------|------------------|------------------|
| ISO grade | | | 32 | 46 | 68 |
| Appearance | - | - | Red Clear liquid | Red Clear liquid | Red Clear liquid |
| Specific Gravity | g/mL | ASTM D 1298 | 1.071 | 1.071 | 1.071 |
| Water Content | %wt | ASTM E 203 | 45 | 45 | 45 |
| Pour Point (°C) | °C | ASTM D 97 | -48 | -48 | -40 |
| Viscosity @ 40°C | cSt | - | 32 | 46 | 68 |
| Viscosity Index | - | - | 185 | 190 | 190 |
| pH | - | ASTM D 1278 | 9.5 | 9.5 | 9.5 |
| Refractive Index (nD20) | - | DIN 51423 | 1.4 | 1.4 | 1.4 |

Year: 2016

Version: 1.0



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