

Technical Bulletin

Plurasafe® H20K Water Soluble Synthetic Hydraulic Fluid



Plurasafe® H20K fluid is a water soluble hydraulic fluid designed to meet the demands of today's modern high pressure hydraulic systems upwards of 5,000 psi and 220°F. This proprietary protection package will protect the entire hydraulic system against wear and corrosion damage. The unique blend of polymers in Plurasafe® H20K Fluid will prolong the use of the machinery compared to other types of hydraulic fluids. Plurasafe® H20K Hydraulic Fluid is ideal for the following uses:

- Recreational and Commercial Boat Hydraulic Systems
- Marine and Commercial Dock Operations
- Industrial and Commercial Truck Hydraulic
- Carwash Systems
- Industrial Machinery

High Performance Features & Benefits

Plurasafe® H20K Hydraulic Fluid is a high performance polyalkylene glycol (PAG) based fluid designed specifically for creating a safer workplace in environmentally sensitive areas. Plurasafe® H20K Hydraulic Fluid is also considered:

- Non-Toxic
- Readily Biodegradable
- Non-Conductive
- Water Soluble

Plurasafe® H20K Hydraulic Fluid does not break down to form sludge or hydrolyze in the presence of water.

The wear observed in testing is 90% less than typical water based hydraulic fluids used in hydraulic pumps and motors. This reduction in wear greatly reduces the chance of equipment breakdown and failure.

Typical Properties of Plurasafe® H20K Hydraulic Fluid

| Properties | Values |
|-----------------------------------|--------|
| Viscosity, 40°C (104°F) SUS, cSt | 48 |
| Viscosity, 100°C (212°F) SUS, cSt | 8.9 |
| Viscosity Index | 169 |
| Specific Gravity @ 15.6°C/15.6°C | 1.0648 |
| Pour Point, °C, ASTM D 97 | - 51 |
| Corrosion ASTM D 665 A & B | Pass |
| Flash Point, COC, °C | 204 |

**Property values listed are representative values and are not specifications.*

Environmental

Plurasafe® H20K Hydraulic Fluid has attributes that are superior for minimizing effects on the environment. These include:

Biodegradability:

Passes OECD 301B

Coast Guard Sheen Test :

Pass (No Sheen)

Plume Test:

Pass (No Plume in DI or sea water)

Aquatic Toxicity:

Pass OECD 203 LC50>100 mg/liter

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