



Safety Fluid HFAS

High performance fire resistant synthetic hydraulic fluid and corrosion preventative

Product description

Safety Fluid HFAS is a high performance, fire-resistant synthetic hydraulic fluid and corrosion preventative.

A water-soluble concentrate, It meets the 7th Luxembourg Report for flame resistance, essential technology, and environmental and toxicity testing.

This fluid is oil-free and highly stable and contains reliable detergency and dispersancy additives, ensuring optimum filterability in hydraulic systems over long service periods. Safety Fluid HFAS is biodegradable, nitrate, phosphate, borate, silicate and amine-free.

Customer benefits

- Dual application as fire resistant hydraulic fluid and corrosion preventative reduces inventory costs
- Meets 7th Luxembourg Report requirements ensuring low toxicity, fire resistant operation
- Biodegradable, nitrate, phosphate, borate, silicate and amine-free
- Highly stable with optimum filterability increases uptime and improves operating economics
- Good protection against rust and corrosion in cast iron, aluminium or combinations
- Wide range of hydraulic and corrosion prevention applications save time and money
- Low foam tendency and compatible with commonly used elastomers

Product highlights

- **Meets ISO 12922 (HFAS), ISO 6743 (HFAS) and 7th Luxembourg Report**
- **Dual application hydraulic/corrosion protection fluid saves time and money**
- **Biodegradable, low toxicity and fire resistant**
- **Wide range of hydraulic/corrosion protection applications**

Applications

1. Corrosion protection fluid

- Safety Fluid HFAS is recommended as a corrosion protection fluid in a wide range of applications, including the protection of new engine blocks, hydraulic systems or closed cooling circuits. Easily applied by immersion or spraying, providing a microfilm on metal surfaces pre-treated with soluble oil emulsions

2. HFAS is a fire-resistant fluid

- Safety Fluid HFAS is recommended for hydraulic systems operating in close proximity to very hot surfaces or to open flames or electric sparks, such as rolling mills in the steel industry, mining and foundry applications, as well as welding robots in car assembly plants, hydraulic presses in chipboard manufacturing (from 55-265 bar) and the high-frequency welding of textiles

Approvals, performance and recommendations

Performance

- Meets ISO 6743 (HFAS)
- Meets ISO 12922 (HFAS)
- Meets 7th Luxemburg Report (Requirements and tests applicable to fire-resistant hydraulic fluids used for power transmission and control)

Typical test data		
Test	Test methods	Results
Inhibitor content	%wt	32
Colour	-	Water like
Density, 15°C, Kg/l	ASTM D1298	1.061
pH	ASTM D1287	9.4
Reserve Alkalinity, ml	ASTM D1121 ^[2]	5
5 % dilution		
- pH	ASTM D1287	8.1
- Foam, Volume, ml	ASTM D1881 ^[1]	195

^[1] 145ml of 5% solution in deionised water.

^[2] 1.7g of Safety Fluid HFAS is titrated.

The information given in the typical data does not constitute a specification but is an indication based on current production and can be affected by allowable production tolerances. The right to make modifications is reserved. This supersedes all previous editions and information contained in them.

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