

## FRAGOL HFDU BIO 68

FRAGOL HFDU BIO 68 is a synthetic ISO VG 68 high performance biodegradable fire resistant hydraulic fluid based on polyolester (POE). It utilises latest available ash-less and silicon free additive technology to meet the most stringent industry requirements required in hydraulic systems.

FRAGOL HFDU BIO 68 was evaluated and meets Factory Mutual.

FRAGOL HFDU BIO 68 is approved by MSHA under code of Federal Regulations Title 30, part 35 Mine Safety and Health Administration.

### APPLICATIONS

- Hydraulic systems in high temperature environments
- Applications that require a higher degree of fire resistancy
- Applications where environmentally sensitive products are preferred, e.g. off-road construction vehicles, tunnel construction and machinery
- Applications in the mining industry

### BENEFITS

- Excellent fire protection characteristics
- High biodegradability & Environmentally friendly
- No deposit/lacquer formation
- Broad operating temperature range
- Extended drain intervals / long service life

### TYPICAL CHARACTERISTICS

FRAGOL HFDU BIO 68	Value	Unit	Method
<b>Appearance</b>	clear yellow liquid	-	visual
<b>Viscosity @ 40 °C</b>	70.0	mm <sup>2</sup> /s	ASTM D-445
<b>Viscosity @ 100 °C</b>	12.8	mm <sup>2</sup> /s	ASTM D-445
<b>VI</b>	184	-	ASTM D-2270
<b>Density @ 15.6 °C</b>	0.918	kg/l	ASTM D-1298
<b>Flash point (COC)</b>	> 300	°C	ASTM D-92
<b>Fire Point</b>	> 350	°C	ASTM D-92
<b>Pour point</b>	-36	°C	ASTM D-97

### SPECIFICATIONS

FRAGOL HFDU BIO 68 meets or exceeds the requirements of the following specifications:

HFDU (according to ISO 12922)

Biodegradability 78 % (according OECD 301 B)

HEES (according ISO 15380)

### COMPATIBILITY

FRAGOL HFDU BIO 68 is compatible with Viton, High Nitrile Buna N, Teflon, Nylon, Delrin, Celcon, PBT, Epoxy paint, Oil-resistant Alkyd.

FRAGOL HFDU BIO 68 is not compatible with Neoprene, SBR Rubber, Low Nitrile Buna N, Polystyrene, PVC, ABS. This chemistry also has the tendency to dissolve single component paints, Acrylic paint and Lacquer.

Please check our general technical guideline for other materials.