

FRAGOL HFDU BIO 46

FRAGOL HFDU BIO 46 is a synthetic ISO VG 46 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 46 was evaluated and meets Factory Mutual.

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

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 46	Value	Unit	Method
Appearance	clear yellow liquid	-	visual
Viscosity @ 40 °C	45.4	mm ² /s	ASTM D-445
Viscosity @ 100 °C	9.6	mm ² /s	ASTM D-445
VI	200	-	ASTM D-2270
Density @ 15.6 °C	0.918	kg/l	ASTM D-1298
Flash point (COC)	> 300	°C	ASTM D-92
Fire Point	> 350	°C	ASTM D-92
Pour point	-28	°C	ASTM D-97

SPECIFICATIONS

FRAGOL HFDU BIO 46 meets or exceeds the requirements of the following specifications:

HFDU (according to ISO 12922)

Biodegradability 93 % (according OECD 301 B)

HEES (according ISO 15380)

COMPATIBILITY

FRAGOL HFDU BIO 46 is compatible with Viton, High Nitrile Buna N, Teflon, Nylon, Delrin, Celcon, PBT, Epoxy paint, Oil-resistant Alkyd.

FRAGOL HFDU BIO 46 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.