



# OPUS LUBRICANTS PRODUCT DATA

## SYNOPSIS BIO-HYDRAULIC FIRE RESISTANT 46 & 68

### Description

**Synopsis Bio-Hydraulic Fire Resistant 46 & 68** is a hydraulic fluid based on synthetic esters with extremely high flash point and auto ignition temperature (AIT). It is a biodegradable oil and offers excellent corrosion protection for ferrous and non-ferrous metals.

### Application

**Synopsis Bio-Hydraulic Fire Resistant 46 & 68** is developed to replace mineral oil based hydraulic fluids in areas with elevated risk of fire. It can be used in systems where a mineral oil based hydraulic fluid (HM / HLP) has previously been used without major changes, first making sure that the paint and elastomer compatibility is checked.

### Benefits

**Synopsis Bio-Hydraulic Fire Resistant 46 & 68** offers enhanced anti wear properties (AW / EP) which are superior in many cases to those of mineral based hydraulic fluids (HM / HLP).

- FM approved formulation.
- ISO 15380:2016 – International standard for environmentally acceptable hydraulic fluids.
- ISO 6743-4:2015 – International standard for rapidly-biodegradable hydraulic fluids (HEES class).
- VDMA 24568 – International standard for environmentally friendly hydraulic fluids based on Synthetic esters (HEES class).
- Extremely high flash point and auto ignition temperature.
- Superior anti wear properties (AW/ EP).
- Excellent corrosion protection.

### Typical Data

		<b>HFDU 46</b>	<b>HFDU 68</b>
Appearance:		Yellow- Brownish	Yellow- Brownish
Density	@20°C:	0.916	0.928
Kinematic Visc	@ 40°C:	49.0 mm <sup>2</sup> /s	65.0 mm <sup>2</sup> /s
Viscosity Index:		185	185
Flash Point:		280°C	290°C
Fire Point:		335°C	375°C
Pour Point °C:		-25	-32
Auto Ignition °C:		430	490



## **Health & Safety**

This product has been manufactured to the highest standards and when used for the purpose recommended is unlikely to present any significant health hazards. A Material Safety Data Sheet is available.

Indicated data are approximate values and are subject to the usual commercial fluctuations. All information correct at time of going to press to the best of our knowledge. This information may be subject to change without notification due to continual product research and development.

Revision Date: January 2022

**Ferguson & Menzies Ltd, 312 Broomloan Road, GLASGOW, G51 2JW**  
**Tel: 0141 445 3555    E-Mail: [info@fergusonmenzies.co.uk](mailto:info@fergusonmenzies.co.uk)    Web: [www.fergusonmenzies.co.uk](http://www.fergusonmenzies.co.uk)**