



## FLUIDO 46 FR – 68 FR

**APPROVED**

The products of the series **FLUIDO 46 FR – 68 FR** is a high quality synthetic lubricant obtained by chemical synthesis from non-oil raw materials coming from renewable vegetable sources. It is also biodegradable and meets FM Approvals fire resistant test Standard 6930 as an Approved industrial fluid”

The series **FLUIDO 46 FR – 68 FR** finds its most important application in plants particularly susceptible to fire. It has the peculiarity to reduce the possibility of ignition from open flames and is characterized by an excellent self-extinguishing power.

CHARACTERISTICS	METHOD	FLUIDO 46 FR	FLUIDO 68 FR
Viscosity aT 40°C (ISO)	ASTM D 445	46 mm <sup>2</sup> /s o cSt	68 mm <sup>2</sup> /s o cSt
Viscosity Index	ASTM D 2270	185	180
Density at 60°C	ASTM D 4052	0,886 Kg/l	0,899 Kg/l
Flash Point	ASTM D 92	300 °C	300 °C
Flame Point	ASTM D 92	348 °C	359 °C
Demulsivity (separation in 30')	ASTM D 1401	40/37/3 (30) ml-ml-ml (min.)	40/37/3 (30) ml-ml-ml (min.)
Sliding Point	ASTM D 97	-30 °C	-30 °C
Rust Test	ASTM D 665 (A)	Passa	Passa
Acidity (N.N.)	ASTM D 974	<1 mg KOH/g	<1 mg KOH/g
Copper Corrosion	ASTM D 130	1a	1a
Foaming Test	ASTM D 892 Seq 1 at 24°C	0/0	0/0
Hydrolytic Stability (N.N. in aqueous phase)	ASTM D 2619	<10 mg KOH	<10 mg KOH
NAS Polluting Level	ASTM D 1638	max 8	max 8

### PROPERTIES AND PERFORMANCES

- The series **FLUIDO FR** is characterized by an excellent resistance to combustion, which reduces the possibility of ignition from open flames or by hot or melted metals and however from all potential risks due to hydraulic system breakage
- Readily biodegradable according to OECD 301B
- Complies with the specification ISO 15380 Part 4 and exceeds the performance requirements of DIN 51524 Part 3



ISTITUTO DI CERTIFICAZIONE DELLA QUALITÀ

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Cap. Soc. € 1.105.000,00 int. vers. - R.E.A. BG n.258534 - Reg. Impresa e C.F. 00231990359 - P. IVA 02054350166



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- Has a very modern ashless additive; it is zinc-free; it passes the 12<sup>th</sup> FZG stage thus preserving for long time the in-moving mechanical members from wear and tear .
- All the shades of the series **FLUIDO FR** have an excellent demulsibility and it contrasts the formation of stable emulsions with consequent decay of lubricating properties
- Its antifoam properties and the capability to release entrained air (Air Release) gives an excellent incompressibility to **FLUIDO FR**. This feature is crucial to prevent faults and drawbacks of pumping.
- All the shades of the series **FLUIDO FR** have a very good antirust and anti-corrosive properties towards materials with which they come into contact
- Shows an excellent oxidation stability, which minimizes the tendency to polymerization and by maintaining almost unchanged for long period the initial characteristics of the product as highlighted by our tests (Modified Method IP 48, conducted at 100 ° C for 350 hours, with air flow of 15 liters per hour) . It also denotes a viscosity increase within the limits of 3% - 5%.
- Is compatible with lubricating oil of mineral origin and with the elastomers of most commonly use.

### APPLICATIONS

The Domus **FLUIDO FR** can be used in all hydraulic systems, lubrication systems at circulation and greasing gears, where EP characteristics are not required. In particularly where there are potential risks of fire and / or water contamination. Furthermore, thanks to its biodegradability, the FLUIDO 68-15 FR can be used in the applications where the environment is much required and appreciated.

ISO-HFD-U

ISO 6743/4 HM-HV

ISO 15 380 parte 4

VII Luxemburg Report

VDMA 24568

DIN 51524 parte 3

Vickers M-2952-S

Vickers I-286-S



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### APPROVALS

The fluids produced by Domus Chemicals meet the approval criteria of the following manufacturers:

- Bosch Rexroth
- Eaton-Vickers
- Hitachi Construction
- Rollstar
- David Brown
- Textron Trasmission
- Komatsu
- Mitsubishi

The **FLUIDO FR/FR D** meet the Danieli's Specifications as for Danieli standard 0.000.001 rev.15 (HFD-U Family), rev. of 28/11/2014.

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*Lab Q.C.*



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