

Technical Data Sheet

FLUIDO Series

The products of the **FLUIDO series** are high quality synthetic hydraulic lubricants obtained by chemical synthesis of plant-kingdom renewable raw materials, non oil source. The products are highly performing and biodegradable at the same time. The viscosities 46cSt and 68cSt are fire resistant.

The products of the **FLUIDO series** finds its most important application when the environmental concerns are a must and 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.

The products of the **FLUIDO series** help to achieve ISO 14001 standards.

FLUIDO	22	32	46	68	100	150	220	320	460
Viscosity at 40°C	22	32	46	68	100	150	220	320	460
Viscosity at 100°C	5.3	6.9	9.1	12.3	15.9	20.6	28.8	37.2	51.6
Viscosity Index	185	185	185	180	170	160	170	165	175
Flash Point COC °C	>260	>260	>300	>300	>300	>300	>300	>300	>300
Pour Point °C	<-30	<-30	<-30	<-30	<-30	<-30	<-30	<-30	<-30
Density at 15°C (kg/lt)	0.905	0.920	0.925	0.935	0.936	0.940	0.964	0.968	0.970

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PROPERTIES AND PERFORMANCES

GENERAL:

- Based on **high quality unsaturated synthetic esters**.
- It contains a **very modern Zinc-Free ashless additive**.
- **Corrosion protection**: excellent properties of rust-prevention, ideal for the long-term preservation of moving parts.
- **Lubrication performances of premium antiwear hydraulics oils**, all the viscosities above the 32 cSt pass the 12th FZG wear test stage.
- **Excellent combustion resistance** which reduces the possibility of ignition caused by naked flames or hot or molten metal, as well as minimising the risk of other potential hazards due to breakage or extravasations. **High flash point** improves safety and **reduces fire hazard**.
- **Excellent demulsibility** that counteracts the formation of permanent emulsion preventing the deterioration of the lubricant/lubricating properties.
- Its **anti-foaming** agents and its ability to release trapped air gives an excellent incompressibility, which is essential to prevent damage and pumping problems.
- **Readily Biodegradable**: according to the test **OECD 301B**.
- **Full compatibility** with mineral oil lubricants until the 150cSt viscosity, and the most commonly used elastomers.
- **The Fluido Series lubricants** show excellent oxidation stability which minimise the tendency to polymerization, as revealed by our test (modified IP48 method, conducted at 100°C for 350 hours, with a continuous airflow of 15lt per hours). The viscosity increase lays within the limits of 3%-7%.
- **High natural viscosity index** that remains constant even under burdensome working conditions. All the FLUIDO Series don't need addition of any viscosity index improvers as all the mineral oil based lubricants; that's why these products have a natural high **shear resistance**.

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APPLICATIONS and APPROVALS

- The **FLUIDO Series** can be used in all hydraulic systems, lubrication systems at circulation, where EP characteristic are not required. In particularly where there are potential risks of fire and / or water contamination. Furthermore, thanks to its intrinsic biodegradability, the FLUIDO series can be used in the applications where the environment protection is much required and appreciated.

ISO –HFDU / HEES

ISO 6743/4 HM-HV

DIN 51524 part 2 & 3

Vickers I-286-S

Vickers M-2952-S

ISO 15380 part 4

The products of the FLUIDO Series meets the approval criteria of the following OEM's standards:

Bosch Rexroth

David Brown

Textron Transmission

Eaton-Vickers

Hitachi Construction

Komatsu

Mitsubishi

Caterpillar Forklift

Rollstar

PACKAGING, STORAGE and SHELF LIFE

BULK

IBC 900kg

Steel Drums 180kg

Plastic pails 25kg

The products of the **FLUIDO series** must be stocked properly inside the original packaging and/or container, in a dry place, well-sealed and far from any heat source.

The products of the **FLUIDO series**, if stoked properly, maintain the original characteristics for at least 3 years.

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HEALTH & SAFETY

Please refer to the material safety data sheets available for each product for more information.

NOTE

The information submitted in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application, these data do not relieve processors of the responsibility of carrying out their own tests and experiments; neither do they imply any legally binding assurance of certain properties or of suitability for a specific purpose. It is the responsibility of those to whom we supply our products to ensure that any proprietary rights and existing laws and legislation are observed.

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Q.C. Laboratory*