

IKV-TRIBOFLON TXN 702 OX

► DESCRIPTION

IKV-TRIBOFLON® TXN 702 OX is a special non-flammable white lubricating paste/sliding agent developed from a perfluoroalkyl-polyether-type (PFPE) oil and a special thickener. The base oil used is totally inert physically and chemically in the event of aggression by all kinds of liquids, vapours or reactive gas products (except for fluorinated solvents and refrigerants) and even thermal radiation. Due to the fact that this product is free of organic materials, it is completely non-flammable and consequently can be used in critical applications where fire safety and explosion risk are vital considerations for the user. This product cannot be burned and does not produce oxidative residues. **IKV-TRIBOFLON® TXN 702 OX** is high operational safety lubricant for installations and components carrying gaseous oxygen subject to oxygen pressure up to 450 bar at maximum 60 °C.

IKV-TRIBOFLON® TXN 702 OX has an impressive range of properties, that ensure they are the lubricant of choice for many critical applications in a wide range of industries :

Compatibility - with all widely used elastomers, seals, gaskets, plastics and metals generally employed.

Temperature resistance – this product has a very high thermal stability and when exposed to high temperatures it exhibits extremely slow evaporation rates when compared with conventional and other synthetic lubricants. This results in excellent durability and long life at elevated temperatures. At low temperatures it becomes neither hard nor brittle and remains soft and lubricious.

Very wide operating temperature range - In many industrial applications, components must operate in fluctuating or varying high and low temperatures, for these applications, a lubricant with a wide temperature capability is important.

Non-carbonising - evaporates very slowly and “cleanly” in high temperatures. It is oxidation stable over long time periods and will not leave behind gummy or carbonized deposits, even when its temperature limits are exceeded.

Good anti wear properties – IKV-TRIBOFLON® greases with their high film strength offer outstanding long term wear prevention and dramatic increases in work cycle life over both conventional and other synthetic lubricants.

► TYPICAL APPLICATIONS

IKV-TRIBOFLON® TXN 702 OX is suitable for use as a lubricant/sliding agent in both highly pressurised and low pressurised tube and piping systems, valves and fittings or other components for gaseous oxygen service at temperatures up to 60°C also when oxygen is suddenly compressed adiabatically.

This paste is also suitable for compressors, sealing, packing of bearing and sealant housings, gears, slideways, roller and plain bearings, bolt threads and screw connections, gas welding, oxygen lances in steel production, Oxygen handling systems for scuba and respiratory systems, other reactive gases, medical gases and medical equipment.

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APPLICATION INSTRUCTIONS

It is important to apply this grease to new or cleaned components that are free of any other contaminants, lubricants or rust preventative coatings that are not of the same chemistry. Dedicated manual, semi-manual or automatic lubrication systems should be used in order to avoid risk of contamination.

Clean surfaces with non-oily solvents and for critical applications make a final degreasing/cleaning process with **IKV-SOLV XF**.

Carefully close the product packaging immediately after use in order to avoid contamination. Use only clean oil and grease free device.

At temperatures above 300°C – 320°C the onset of toxic decomposition products may begin.

PROPERTIES

CHARACTERISTICS	VALUES	UNITS	TESTS
Nature of oil	Perfluorinated		
Thickener	PTFE		
Appearance	White / creamy		
Density at 20°C	1.95	g/ml	
Volatility (22 h at 204°C)	< 0,3	wt % loss	ASTM D-972
NLGI grade	2		
Worked penetration	265 / 295	x 0.01 mm	ASTM D-217
Drop point	None	°C	ASTM D-566
Useful temperature range	- 50 to 250	°C	
- in continuous		°C	
- in peak	300	°C	



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