

# THERMAL-LUBE

## HALOCARBON OIL

# XL7333

July 2022

**XL7333** is a non-flammable, non-corrosive, odourless, low toxicity oil that is specifically formulated for highly critical applications where any oxidizing materials present may result in catastrophic chemical or explosive reactions.

**XL7333** is formulated from saturated **hydrogen-free chlorofluorocarbons**, which are chemically inert, non-flammable, have inherently high thermal stability, excellent lubricity, high dielectric strength, high density, and non-polar characteristics.

### CHEMICAL COMPATIBILITY:

**XL7333** halocarbon oil is inert toward practically all compounds and solutions except to chemicals that are prone to attack silica (hydrogen fluoride, etc).

**XL7333** is compatible with the following common chemicals, and many others not listed below or not as widely used:

Aluminum Chloride	Hydroiodic Acid
Ammonium Nitrate	Muriatic Acid
Ammonium Perchlorate	Nitrogen Oxides (all)
Antimony Trichloride	Nitrogen Trifluoride
Boron Trichloride	Oleum
Boron Trifluoride	Oxygen (liquid & gases)
Bromine	Ozone
Bromine Trifluoride (gas)	Phosphorous Oxichloride
Calcium Hypochlorite	Potassium Perchlorate
Chlorinated Cyanurates	Potassium Persulfate
Chlorine	Silane
Chlorine Dioxide	Silicon Tetrachloride
Chlorine Trifluoride (gas)	Sodium Chlorate
Chlorosilanes	Sodium Hydroxide (all %)
Chlorosulfonic Acid	Sodium Hypochlorite
Chromic Acid	Sulfur Hexafluoride
Chromyl Nitrate	Sulfur Trioxide
Ethylene Oxide	Sulfuric Acid
Fluorine (gas)	Thionyl Chloride
Fuming Nitric Acid	Titanium Tetrachloride
Hydrogen Peroxide	Uranium Hexafluoride
Hydrogen Sulfide	



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The information presented in this bulletin is, to the best of our knowledge accurate. It is intended to be helpful, and not considered to be a guarantee. L'information donnée dans ce bulletin est, au meilleur de nos connaissances, exacte. L'intention de ce bulletin est pour votre aide et non une garantie.

**XL7333 is NOT recommended** in areas where contact may occur with sodium or potassium-based metals, amines, liquid fluorine, or liquid chlorine trifluoride. They should also not be used with aluminum and magnesium (and alloys of these metals) under conditions of large shear forces such as those found in threaded connections.

**XL7333** will not contribute fuel in fire prone applications.

Chemical compatibility should be tested in the field to determine final usability of the lubricant.

### Thermal Stability:

**XL7333** is stable at operating temperatures less than 204°C/400°F and intermittently to 260°C/500°F. Higher temperatures will accelerate the decomposition of the rust inhibitors and lubricant base stocks.

### Material Compatibility:

**XL7333** is compatible with the following seals, rings, and gaskets:

Ethylene Propylene Rubber	Polyamide
Polyvinyl Alcohol	Polycarbonates
Buna N	Fluorosilicone
Neoprene	Teflon
Chlorinated polyethylene	Cured Epoxies
Urethanes	PNF
Viton, Fluorel	EDPM

**XL7333** is **NOT** compatible with:

Buna S	Natural Rubber
Silicone Rubbers	PVC
Polymers or copolymers of chlorotrifluoroethylene.	

**XL7333** is non-corrosive towards metals up to about 177°C (with the exception of copper and some of its alloys) which will discolour over 50°C. Prior testing should be done on all metals above these temperatures.

TYPICAL SPECIFICATIONS						
Product Code: XL7333	/006	/022	/468	/100	/700	/1000
Viscosity (cSt @ 37.8°C) (ASTM D445) (cSt @ 99°C) (ASTM D445)	6.3 1.6	27 3.1	56 4.9	95 6.3	700 17	1000 22
Density (g/ml @ 37.8°C) (g/ml @ 71.1°C) (g/ml @ 99°C)	1.87 1.82 1.77	1.90 1.85 1.81	1.92 1.87 1.82	1.92 1.87 1.82	1.95 1.90 1.86	1.95 1.90 1.86
Pour point(°C) (ASTM D97)	-71	-40	-34	-26	4.5	10
Fire Point (°C)	None					



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