



# **XL-7333**

## HALOCARBON OIL

**XL-7333** 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.

**XL-7333** 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:**

**XL-7333** halocarbon oil is inert toward practically all compounds and solutions **except** to chemicals that are prone to attack silica (hydrogen fluoride, etc).

**XL-7333** 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 Oxychloride
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
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Ethylene Oxide	Sulfuric Acid
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Hydrogen Peroxide	Uranium Hexafluoride
Hydrogen Sulfide	

**XL-7333** 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.

**XL-7333** 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:**

**XL-7333** 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:**

XL-7333 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

XL-7333 is NOT compatible with:		
Buna S	Natural Rubber	
Silicone Rubbers	PVC	
Polymers or copolymers of chlorotrifluoroethylene.		

**XL-7333** is non-corrosive towards metals up to about 177°C (with the exception of copper and some of its alloys) which will discolor over 50°C. Prior testing should be done on all metals above these temperatures.