

THERMAL-LUBE

HALOCARBON GREASE

XL0545

June 2022

XL0545 is a *non-flammable, non-corrosive, odorless, low toxicity* grease that is specifically formulated for highly critical applications where any oxidizing materials present may result in catastrophic chemical or explosive reactions.

XL0545 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:

XL0545 halocarbon grease is inert toward practically all compounds and solutions **except** to chemicals that are prone to attack silica (hydrogen fluoride, etc).

XL0545 is compatible with the following common chemicals, and many others not listed below or not as widely used:

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



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XL0545 is NOT recommended in areas where it might come into contact with Sodium or Potassium 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.

XL0545 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:

XL0545 is stable at operating temperatures less than 204°C and intermittently to 260°C. Higher temperatures will accelerate the decomposition of the rust inhibitors and lubricant base stocks.

MATERIAL COMPATIBILITY:

XL0545 is compatible with the following seals, rings, and gaskets:

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

XL0545 is **NOT** compatible with:

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

XL0545 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.



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