

DuPont™ Krytox® H-1 Food Grade Lubricants



ISO 9002 certified



**Oils and greases for
the food processing
industry . . .
*when failure
is not an option***



The miracles of science™

Introduction

Choosing the right lubricant for your equipment just got a lot easier with the introduction of H-1 certified Krytox® FG oils and greases.

As with the full line of Krytox® products, Krytox® FG delivers superior performance with advanced features of high-temperature stability, nonflammability, and chemical and biological inertness. These products will not carbonize or form gummy deposits that typically cause failures. And, they will not evaporate.

Therefore, maintenance costs are significantly reduced.

The Krytox® composition allows it to function in a wide range of operating temperatures and chemical environments, and it will not break down under mechanical stress. The oils are clear, colorless, and odorless, and the grease is white.

Krytox® lubricants comply fully with USDA performance standards for designated uses. In addition to our new H-1 rated FG lubricants, many of our standard Krytox® grades have an H-2 rating. None of these products are intended to be used as direct food



*In oven at 232 °C
(448 °F) for 40 hr:
Krytox®—0% wt loss*



*In oven at 232 °C
(448 °F) for 40 hr:
Hydrocarbon—40% wt loss*

additives. Use Krytox® whenever a long-lasting, tenacious, chemically inert lubricant is needed for your demanding applications.

Stability and Compatibility

Krytox® oils contain only carbon, oxygen, and fluorine. They will not burn or support combustion, even in 100% liquid or gaseous oxygen. They are chemically inert and will not break down in the presence of most chemicals.

Because Krytox® lubricants are essentially inert, they are safe to use with virtually all metals, plastics, and seal materials. They are completely resistant to water and steam.

Krytox® lubricants protect bearings and other components under all load and speed conditions. Components run quieter, and wear protection is extended. Krytox® will not break down under extreme pressure or high mechanical stress.

Various grades of Krytox® lubricants are serviceable for long periods of time at continuous temperatures between -60 and 300°C (-58 and 600°F). There are also special grades that can routinely handle temperatures of 350°C (662°F) and withstand peaks up to 400°C (752°F) for shorter periods of time.

Use Krytox® on chains, bearings, valves, seals, or any place a long-lasting lubricant is needed.



Hydrocarbon-based lubricants burn; Krytox® does not.

Safety and Environmental Protection

Using Krytox® greases and oils reduces the need for hydrocarbon lubricants and also any concerns about emissions or other potential environmental impact, as well as the hassle and cost associated with their disposal.

Krytox® greases and oils are nontoxic, easy to handle, and do not release volatile organic compounds to the atmosphere.

Additionally, DuPont has a regeneration program that reclaims used oil and restores it to its original properties. This lowers the overall cost of lubrication and eliminates safety and environmental disposal problems.

Benefits in Use

The extended life you will see with Krytox® lubricants means longer relubrication intervals, less maintenance, and improved cleanliness. The overall superior stability of Krytox® lubricants also means that you will experience less downtime and fewer failures due to lubricant carbonization, evaporation, or other deterioration. Water washout and steam cleaning will not affect Krytox®. And, because Krytox® can be used in many applications and lasts so long, total lubricant inventories are reduced, as well as the need for frequent movement of drums around your facility.

The combination of all of these factors means *long-term cost savings* for you.

Others that Have Benefited from Krytox®

- Automotive Industry
- Paper Corrugating Plants
- Aerospace Industry
- Semiconductor Industry
- General Manufacturing Industries
- Clean Rooms

Applications

Type	Products	Applications	Comments
Multipurpose Greases	FG20 FG22 FG24	Bearings, valves, seals, O-rings	For noncorrosive environments at standard operating temperatures
Anticorrosion Greases	FG30 FG32 FG34	Bearings, valves, seals, O-rings	For corrosive environments at standard operating temperatures
High-Temperature Greases	FG26 FG36	Bearings and chains	FG36 contains corrosion inhibitor
Lubricating Oils	FG40 FG45 FG50	Chains, compressors, bearings, gear boxes	FG45 is formulated for high temperatures FG50 contains corrosion inhibitor
Vacuum Pump Fluids	FG10 FG12 FG15	Mechanical pumps	

Additional Information and Literature Requests

More detailed data sheets showing specific properties for each Krytox® product are available upon request.



For more information or technical assistance, call: (800) 424-7502
or visit us on the Web: <http://www.krytox.com>

Or call the Krytox® hotline in the **United States** at (800) 424-7502, E-mail: krytox@usa.dupont.com
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