DuPont™ Krytox® Performance Lubricants

INNOVATIONS FOR THE CHEMICAL INDUSTRY

Chlorine, Fluorine, Oxygen ... Krytox® lubricants are safe for use with reactive chemicals

With a heritage of over 200 years in producing, handling, and safely transporting chemicals, DuPont knows from first-hand experience that chemical industry systems require lubricants that help support operational safety. DuPont™ Krytox® Performance Lubricants do just that, with a broad selection of specially formulated synthetic oils and greases.

Krytox® lubricants, including the NRT line of oils and greases, were developed to satisfy the special needs of the chemical industry. Krytox® lubricant features include:

- Safe, non-reactive, non-flammable use with reactive chemicals
- Effective lubrication to extend equipment use-life and save maintenance
- No auto-ignition at temperatures up to 482 °C (900 °F) in oxygen
- No ignition at pressures up to 350 bar
- Nontoxic, noncorrosive, and compatible with most seal, O-ring and valve polymers used in chemical manufacturing
- Maintain lubricity and stable viscosity throughout a wide range of temperatures in highly corrosive environments
- Chemically and biologically inert and silicone-free
- Unaffected and non-reactive to acidic or caustic cleaners as well as disinfectants, steam, moisture and high temperatures
- Approved for use in valves, fans, pumps, agitators, reactors, centrifuges, and other components

Independently studied and tested by companies and organizations such as BOC, Air Liquide, BAM, NASA and General Dynamics, Krytox® lubricants have been confirmed as compatible for use with oxygen and other reactive chemicals.

Examples of Chlorine and Chemical-Related Applications:

- Krytox® 1506 Vacuum Pump Fluid is used for improving the long-term reliability of pressure gauges on chlorine piping systems used in TiO_2 manufacturing
- Krytox® GPL 105 oil is used to lubricate the moving parts of valves used to prevent leaks of $TiCL_4$, a toxic chemical
- The Chlorine Institute rates Krytox® lubricants a "1" (safe for use) in chlorine and other chemical reactivity for both gas or liquid, wet or dry chlorine applications
- Krytox® oil is used as a barrier fluid in pump and reactor seals to keep hazardous process fluids in the vessel
- Krytox® GPL 204 grease is used to help improve the performance of anhydrous ammonia pumps by lubricating lip seals on positive displacement pumps, thereby eliminating shaft wear and doubling seal life
- U.S. chlor alkali producers use Krytox® greases in bearing, valve, seal and O-ring applications

Extreme Conditions. Extreme Performance.

For more information or for technical assistance, please call 1-800-424-7502 or contact us at krytox@usa.dupont.com.
www.lubricants.dupont.com

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