



# Process Solutions



## ***KML K-Poly™ High Performance Solid Polymer Lubricant***

**Solid Lubricated Bearings offer a true Lube-for-Life Solution!  
Maintenance-Free, Grease-Free Bearings**

If you need **USDA** approved lubricants, ***K-Poly™ Food Grade Formula Solid Lubricated Bearings*** are your answer. This engineered solid lubricant combines a micro-porous polymer with H-1 food grade synthetic oils. The solid polymer encapsulates the oils while blocking out contaminants significantly extending bearing life. The polymer releases the correct amount of lubricating oil to the bearing while operating, but does not leak or drip past the seals.



In most ***KML*** bearing styles the original seals and/or flingers are reinstalled after the solid lube is cured in the ball cavity. This extra sealing protection increases the service life of the bearing. It is not uncommon to double or triple the operating life of the bearing in the original application due to the superior performance of the solid lubricant coupled with the labyrinth sealing systems.

**What?? No grease fittings?** – The grease fitting hole is eliminated or plugged in mounted bearing units making a true Lube-for-Life solution. No more unsightly grease oozing from the bearings on critical conveyor and processing equipment surfaces.



**KML K-Poly™** Solid Lubricant is a Micro-porous Polymer that is formulated with high performance synthetic lubricating oils, extreme pressure additives and corrosion inhibitors. The newest Perfluorinated Formula is effective in caustic extreme washdown applications. The K-Poly™ micro structure releases the oil as the bearing warms to operating temperature. The oil is reabsorbed after the bearing stops operation, eliminating weeping and unwanted dripping. **KML K-Poly™** is specially formulated as an H-1 grade lubricant in Food Service and Sanitary applications.

**KML K-Poly™ Solid Lubricant Technical Information**

KML K-Poly™ Product	Product Type	Food Production Formula	Industrial Application Formula	Extreme Washdown	Operating Temperature	
					Low	High
<b>K-Poly FGCT</b>	Food Service Grade H-1 Cryogenic Freezing Solid Lubricant	X		X	-65°F	275°F
<b>K-Poly FGHT</b>	Food Service Grade H-1 High Temperature Solid Lubricant	X		X	-25°F	350°F
<b>K-Poly FGLT</b>	Food Service Grade H-1 Low Temperature Solid Lubricant	X		X	-55°F	200°F
<b>K-Poly FGPF</b>	Food Service Grade H-1 Perfluorinated Solid Lubricant	X	X	X	-35°F	350°F
<b>K-Poly IGHT</b>	Industrial Grade High Temperature Solid Lubricant		X	X	-25°F	350°F
<b>K-Poly IGSL</b>	Industrial Grade Solid Lubricant		X	X	-55°F	215°F

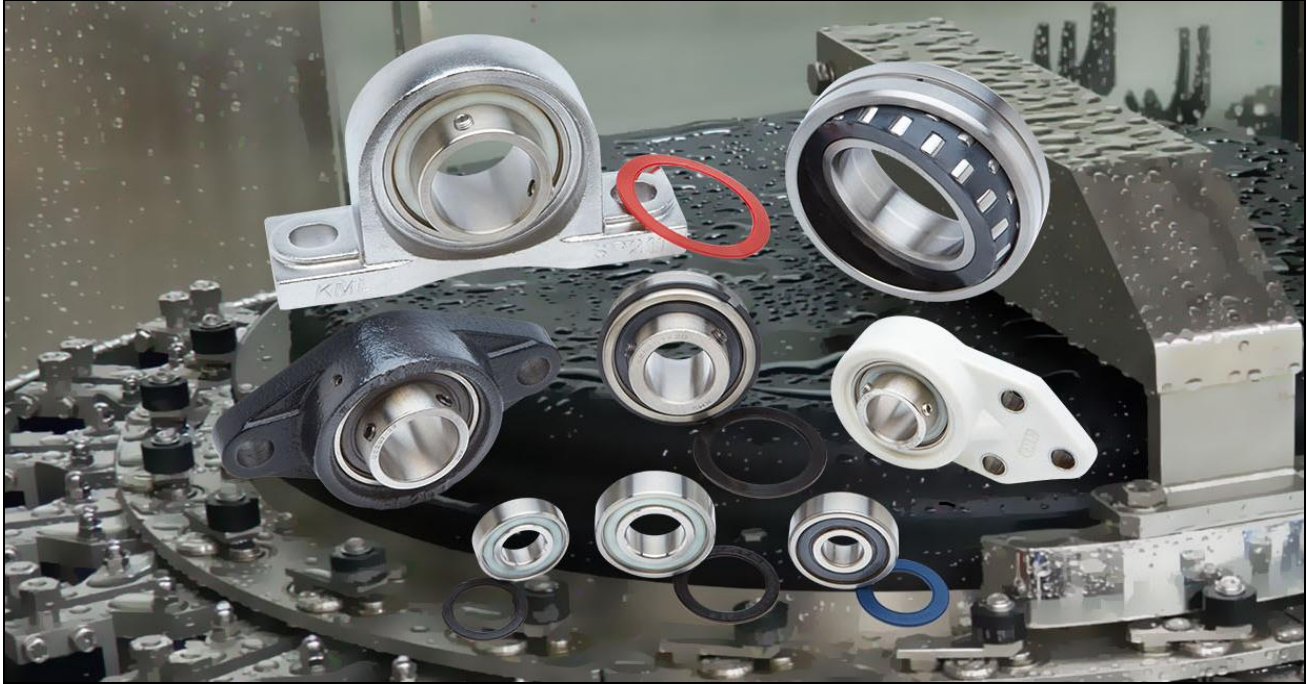
## ***KML K-Poly™ Solid Lubricant provides solutions for difficult Sanitary Applications.***



- K-Poly™ Solid Polymer Lubricant eliminates the need to grease the bearing. A true Lube-for-Life option that can eliminate costly lubrication intervals or eliminate central lubrication systems.
- K-Poly™ Solid Polymer Lubricant is available H-1 Food Grade and Sanitary Equipment Design compatible.
- K-Poly™ Polymer Solid Lubricant blocks out contaminants that can cause premature bearing failure.
- K-Poly™ retains oil in the solid polymer matrix eliminating the need for re-lubrication. The encapsulated synthetic oil prevents liquid weeping at temperature extremes.
- K-Poly™ reduces internal friction which reduces start-up torque even at low temperature conditions where normal lubrication becomes stiff or solidifies.
- K-Poly™ Low Temperature Performance to -65°F (-54°C).
- K-Poly™ High Temperature Performance to 350°F (177°C).
- K-Poly™ Solid Polymer Lubricant contains Extreme Pressure Additives and Friction Modifiers for superior bearing performance and increased bearing life.

<b>KML K-Poly™ Product</b>	<b>Formula Specific Details</b>	<b>Extreme Pressure Additives</b>	<b>Low Friction Additive</b>	<b>Corrosion Inhibitors</b>
<b>K-Poly FGCT</b>	Cryogenic range low temperature formula for flash freezing applications operating to -65° F		X	X
<b>K-Poly FGHT</b>	High temperature food grade with high performance synthetic lubricant in ambient temperatures up to 350° F			X
<b>K-Poly FGLT</b>	Standard food grade / sanitary application solid lube with high performance synthetic oils with wide temperature range			X
<b>K-Poly FGPF</b>	Perfluorinated food grade / sanitary application solid lube with high performance synthetic oils with extreme chemical resistance			X
<b>K-Poly IGHT</b>	High temperature industrial formula	X	X	
<b>K-Poly IGSL</b>	Industrial formula wide temperature range	X	X	X

***KML K-Poly™ Solid Lube is available in many bearing types and styles for many demanding applications.***



No matter the process, grease doesn't belong there.

From Poultry Processing to Fruit and Vegetable Packaging, **KML K-Poly™** Solid Polymer Lubricant provides enhanced protection of critical bearing surfaces. The new world created by the Food Safety & Modernization Act assigns responsibility from farm-to-table. **KML K-Poly™** Solid Polymer minimizes multiple HARCP factors, improving operating conditions and saving time and money. From an aesthetic perspective, the cleanliness of the Lube-for-Life solid lubrication solution can pay dividends during critical inspection reviews.

Contact us to learn more about **KML Bearing USA** innovative bearing solutions.



***Process  
Solutions***

***KML Bearing USA, Inc.***  
*213 Jones Blvd.*  
*Pottstown, PA 19464*  
*E-mail: [info@kmlbearingusa.com](mailto:info@kmlbearingusa.com)*  
*Phone: 877-495-6134*  
*Fax: 610-495-6183*