



Krytox™ TM-7

Performance Lubricants

Segmented Tire Mold Application

An American tire manufacturer increases production and saves on costly mold repair by switching lubricants.

U.S. tire manufacturer improves bottom line with new lubricant

A major tire manufacturer located in the United States was experiencing significant, recurring problems with galling—roughening, wearing, or warping of metal at key moveable joints—on its segmented tire molds. This resulted in frequent production downtime and required costly repairs (averaging \$5,000 per mold).

The Challenge

The manufacturer needed to reduce or eliminate galling on mold surfaces. Extending re-lubrication intervals was also a high priority. Because tire plants use electrically and steam-heated segmented molds, the lubricant chosen had to be unaffected by steam and able to withstand high temperatures. In addition, it was important that the lubricant would not carbonize.

The Solution

The facility switched from a competitor's product to Krytox™ TM-7 lubricant from Chemours and began to see immediate benefits. The problems previously experienced with galling have been eliminated; so, tire presses are no longer forced to sit idle while waiting for costly repairs to the molds. What's more, Krytox™ TM-7 can effectively lubricate segmented tire molds for up to 120 days, extending the re-lubrication interval by up to three times the old cycle.

Key Advantages

- Using Krytox™ TM-7 lubricant, the facility was able to eliminate the problem of galling, not only saving mold repair costs but increasing production by keeping tire presses up and running.
- Lubrication cycle was extended from approximately 45 days to as long as 120 days, reducing costs and minimizing downtime for maintenance.
- Krytox™ TM-7 can be used in similar applications where heated metal slides across other metals, such as compression molding machines.

The information set forth herein is furnished free of charge and based on technical data that Chemours believes to be reliable. It is intended for use by persons having technical skill, at their own discretion and risk. The handling precaution information contained herein is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards. Because conditions of product use are outside our control, Chemours makes no warranties, express or implied, and assumes no liability in connection with any use of this information. As with any material, evaluation of any compound under end-use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate under or a recommendation to infringe any patents.

NO PART OF THIS MATERIAL MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM OR TRANSMITTED IN ANY FORM OR BY ANY MEANS ELECTRONIC, MECHANICAL, PHOTOCOPYING, RECORDING OR OTHERWISE WITHOUT THE PRIOR WRITTEN PERMISSION OF CHEMOURS.

For product information, industry applications, technical assistance, or global distributor contacts, visit krytox.com or within the U.S. and Canada, call 1-844-773-CHEM/2436 or outside of the U.S., call 1-302-773-1000.

© 2015 The Chemours Company FC, LLC. Krytox™ and any associated logos are trademarks or copyrights of The Chemours Company FC, LLC. Chemours™ and the Chemours Logo are trademarks of The Chemours Company.

Replaces: K-23320
C-10390 (11/15)