

DuPont™ Krytox® TM7, TM7S and TM100 Performance Lubricants

Krytox® TM7, TM7S, and TM100 greases are specifically designed for the lubrication of segmented molds, both electrically and steam-heated, in the vulcanization process of rubber tire manufacturing. These lubricants eliminate carbon residue buildup on the molds associated with hydrocarbon and hydrocarbon-based synthetic greases. They exhibit excellent adhesion, allowing the operator to significantly increase production by extending lubrication intervals. The TM7 will last in excess of 5000 cycles, based on average curing times, without relubrication. TM100 has proven to be the most

effective product with life between lubricant applications of approximately 50% more than TM7. The white color is easier to see, providing for more efficient application as well as excellent visibility, should contamination of a tire occur.

These Krytox® products are fluorinated greases with polytetrafluorethylene (PTFE) thickeners and selected additives. They have excellent thermal stability and load-carrying abilities. They have a high degree of chemical inertness and extremely high hydrolytic stability. Contact with boiling water or steam has no effect. Krytox® TM7S contains a soluble anticorrosion and antiwear additive that should provide extended service beyond the capabilities of TM7.

During the development process, TM7 was called KDP-4429, TM7S was called KDP-4473, and TM100 was called KDP-4510.

Typical Properties

	TM7	TM7S	TM100
Standard NLGI Penetration Grade	#2	#2	#1
Estimated Useful Temperature Range			
°C	-20/250	-20/250	-20/250
°F	-4/482	-4/482	-4/482
Pour Point			
°C	-25	-25	-25
°F	-13	-13	-13
Base Oil Viscosity, cSt			
20°C (68°F)	1,715	1,715	1,715
40°C (104°F)	500	500	500
100°C (212°F)	46	46	46
Oil Volatility, % in 22 hr 260°C (500°F), D972 modified	<1	<1	<1
Appearance	White, creamy consistency	White, creamy consistency	White, ropy consistency
Specific Gravity	2.0	2.0	2.0

For more information or technical assistance, call:
or visit us on the Web:

(800) 424-7502

<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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