

DuPont™ Krytox®

PREMIUM PERFORMANCE GEARBOX GREASES

DEVELOPMENTAL PRODUCTS

DuPont Performance Lubricants has developed a series of greases specifically designed to lubricate and protect high temperature gearbox gears, bearings, and seals. Krytox® fluoropolymer greases provide excellent lubrication and will not oxidize in the most demanding high temperature environments, even in applications with operating temperatures up to approximately 270°C. Use of Krytox® gearbox grease will help eliminate bearing and gear failures resulting from lubricant oxidation, lead to longer seal life and extend gearbox life. In many applications, Krytox® gearbox grease will last the life of the gearbox, greatly reducing or eliminating the need for maintenance and re-lubrication. When compared to oil-lubricated systems, use of Krytox® grease can also significantly help reduce lubricant leakage related to seal failure.

Krytox® gearbox greases are available in various base oil viscosities to provide the best performance for your given environment. There are currently two grades in this developmental line of products: KDP 4688 and KDP 4746.

Please consult with Krytox® Technical Service to determine if one of these grades is right for your application, or if an additional grade is required.

In conjunction with these gearbox lubricant greases, DuPont Performance Lubricants offers KDP 4748 and KDP 4701 for lubricating bearings that are separated from the common gearbox reservoir by seals but still risk contamination by grease purged into the cavity. These conventional NLGI Grade 2 greases help minimize the potential of gearbox grease contamination.

Krytox® greases are made from clear, colorless fluorinated, synthetic oils that are non-reactive, non-flammable, safe in harsh environments, long lasting and compatible with all seal materials. Krytox® is a perfluoropolyether based polymer composed of fluorine, oxygen and carbon. No hydrogen is present in the molecule, resulting in exceptional stability and non-flammability.

Gearbox Grease Grade	KDP 4746	KDP 4688	KDP 4748	KDP 4701
NLGI Grade	0	0	2	2
Penetration, ASTM D217	355–385	355–385	265–295	265–295
Thickener Chemistry	PTFE	PTFE	PTFE	PTFE
Dropping Point, °C	>290	>290	>290	>290
Base Oil Viscosity, 40°C	100	500	100	500
Estimated Useful Temperature Range, °C	–40–210	–4–270	–40–210	–4–270
Appearance	Grey, Creamy	Grey, Creamy	Grey, Creamy	Grey, Creamy
Specific Gravity	2.1	2.1	2.1	2.1



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