



Rheotemp™ 763G

A Polyurea thickened, light viscosity synthetic hydrocarbon grease designed for electric switch contacts, sliding surfaces, bearings, and gear trains where elevated operating temperatures are likely.



Circuit Breakers, Switches & Disconnects

Application: Low Voltage Contacts, Micro-Arcing
Component Lubricated: Electrical Contacts & Interfaces

Rheotemp 763G is the next generation low voltage switch grease, developed for use on moving electrical contacts and interfaces that involve **high cycle** requirements, and may involve **micro-arcing** that contributes to **elevated temperatures**, all of which can create component wear and reduced conductivity, and can result in premature switch failure. This a polyurea thickened grease provides exceptionally high dropping point, negligible oil bleed, and withstand temperatures up to 175°C with little or no effect on long-term performance.

A thin coating of Rheotemp 763G will protect electrically conductive switch components in a wide range of switch designs. This lubricant will extend the operating life and improve performance of electrical switches. It will protect electrical contacts from **environmental and galvanic corrosion**. Even in mild environments, metal oxides can gradually build up in pores on contact surfaces over time and they impede current flow. Non-noble contact surfaces and switches made of dissimilar metals are especially susceptible to moisture, oxygen, and corrosive gases. Even noble-metal plated components are at risk if thin, worn, or porous. Rheotemp 763G also **minimizes wear**, especially on sliding electrical contacts which see repetitive cycling or arc damage, two common causes of failures. The lubricant's primary job on sliding contacts is to separate the surfaces during operation, preventing wear and keeping debris out of the contact area, otherwise, microscopic wear particles oxidize quickly, resulting in the formation of insulators at the connection interface.

Typical Properties

Lubricant Properties	Typical Value	Test Method
Temperature Range	-54 to 175°C	
Base Oil	Polyalphaolefin/AN	
Thickener	Polyurea	
Kinematic Viscosity (100°C)	7 cSt	ASTM D-445
Kinematic Viscosity (40°C)	43 cSt	ASTM D-445
Pour Point	-48°C	ASTM D-97
Copper Corrosion	1A, No Corrosion	ASTM D-4048
Evaporation (24hrs, 100°C)	0.1%	ASTM D-972

Nye also manufactures and commercializes other **oils and greases** for the power generation industry. Additional lubricants are available to meet a wide range of application requirements. For further information, technical specifications, evaluation samples, questions about any Nye product, or to discuss a lubricant custom-designed for your application - contact a Nye engineer.



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