



Rheolube® 375

A lithium soap thickened, light viscosity, synthetic hydrocarbon grease intended for electric switch contacts, sliding surfaces, bearings, and gear trains.



Circuit Breakers & Disconnects

Application: Low Voltage Sliding Contacts
Component Lubricated: Electrical Contact Surfaces

A thin coating of Rheolube 375 will protect electrical contacts in a wide range of switch designs. This lubricant will extend the operating life and improve performance of electrical switches. It will **prevent environmental and galvanic corrosion** on switch contacts. 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 plating is at risk if it's worn or porous.

Rheolube 375 also **minimizes wear**, especially on sliding electrical contacts which see repetitive cycling or arc damage, two common causes of failures. Though evidence suggests lubricants change or reduce arc patterns, the lubricant's real job on sliding contacts is to separate the surfaces during operation and **keep debris out of the contact area**. Otherwise, the microscopic wear particles oxidize quickly, resulting in the formation of insulators at the connection interface. Buildup of this oxide grit then further accelerates wear. In general, hydrocarbon lubricants work best at wear prevention because their molecular structure is more rigid than other base oils. Rheolube 375 strikes a balance between preventing wear and maintaining electrical continuity for low voltage switch designs.

Typical Properties

Lubricant Properties	Typical Value	Test Method
Temperature Range	-54 to 125°C	
Base Oil	Polyalphaolefin	
Thickener	Lithium Soap	
Kinematic Viscosity (100°C)	6 cSt	ASTM D-445
Kinematic Viscosity (40°C)	33 cSt	ASTM D-445
Pour Point	-65°C	ASTM D-97
Copper Corrosion	No Corrosion	ASTM D-4048
Evaporation (24hrs, 100°C)	0.2%	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.



12 Howland Road
Fairhaven, MA 02719 USA
Ph: +1.508.996.6721
Email: contact@nyelubricants.com