



# NyoGel® 782DW

A silica thickened, medium viscosity, synthetic polyglycol gel intended for sealing and lubrication of electric contacts exposed to arcing conditions.



## Circuit Breakers & Disconnects

Application: High Voltage, Arcing  
Component Lubricated: Electrical Contact Surfaces

NyoGel 782DW is formulated with base fluid & gelling agents that volatilize and are **non-carbon forming under arcing** conditions. It is used on **high voltage** electrical contacts, such as isolating and earthing switches operating at power substations, and has proven successful in use on **power substations** around the world. NyoGel 782DW helps protect the sliding contact surfaces by preventing wear and corrosion while the grease itself has industry leading resistance to water spray off. High voltage arcing involves very high temperatures that degrade any organic molecule; so a lubricant's tendency to degrade in an innocuous manner is a definite advantage for this type of application. NyoGel 782DW burns away, leaving no carbon or other deposits that can otherwise result in the build-up of a resistive and insulating layer on the contact surface, and thus 782DW prevents the build-up of an insulating layer, that can result in overheating, switch damage, and even a fire hazard.

### Typical Properties

Lubricant Properties	Typical Value	Test Method
Temperature Range	-30 to 100°C	
Base Oil	Polyglycol	
Thickener	Silica	
Color	Orange	
Kinematic Viscosity (40°C)	320 cSt	ASTM D-445
Dropping Point	>260°C, Non-melting	ASTM D-2265
Water Spray Off	<25%	ASTM 4049
Evaporation, 100°C for 24 hrs.	0.3%	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](mailto:contact@nyelubricants.com)

