



NyoGel® 758G

A stiff, lithium soap thickened, light viscosity, synthetic ester grease intended for demanding bearing applications. Specially developed for electrical conductivity.



Conveyor Belt

Application: 300 HP Variable Speed AC Motor
Component Lubricated: Motor Bearings

Electrically conductive grease, like NyoGel® 758G, can provide a very economical, low-maintenance electrical path to ground through the bearing. For example, when 758G is applied to ball bearings in computer equipment, the static discharge passes through the bearing instead of building up, arcing, and pitting the rolling element or fluting the raceway. The volume resistivity of 758G is comparable to or lower than conductive greases based exclusively on conductive additives and thickeners. In effect, the non-conductive additives in NyoGel 758G work synergistically to create an electron **pathway that allows for the efficient transfer of electrostatic currents** through the bearing. It serves a similar purpose in equipment where static electricity can be generated.

Recently, NyoGel 758G was recommended to a leading coal production company that was experiencing bearing failures from fluting corrosion on the bearing raceways of 300HP, variable speed motors. The company needed a solution that would get the induced voltage under 3 volts. When 758G was pumped into the bearing, the voltage dropped to 0.46 volts. After running for two weeks, the voltage reading dropped down to 0.31 volts. The use of 758G was able to **protect the motor bearings from voltage-induced failure** and also helped the motors achieve good mechanical performance. Lubricating the bearing with 758G increased the bearing life by a factor of four.

Note: Never use conductive grease on sliding switches, which could malfunction if a conductive grease is applied to the contacts.

Typical Properties

| Lubricant Properties | Typical Value | Test Method |
|-----------------------------|---------------|-------------|
| Base Oil | Ester | |
| Thickener | Lithium Soap | |
| Temperature Range | -40 to 150°C | |
| Volume Resistivity (25°C) | 623 ohm/cm | Nye CTM |
| Kinematic Viscosity (100°C) | 6.6 cSt | ASTM D-445 |
| NLGI Grade | 3 | ASTM D-217 |
| ISO Viscosity Grade (40°C) | 32 | |
| Evaporation (24hrs, 100°C) | 0.18% | 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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