

Data Sheet

**ELECTRICAL CONTACT
LUBRICANT #1010**

Spanjaard Electrical Contact Lubricant 1010 is a special product for lubricating electrical contacts.

APPLICATIONS

Electrical contacts are often manufactured from relatively soft materials, which are subject to wear. The contact surfaces also oxidise which increases the electrical resistance.

Spanjaard Electrical Contact Lubricant 1010 is specially formulated to give low carbon forming tendencies and to lubricate and alleviate these problems and thus prolong contact life.

Spanjaard Electrical Contact Lubricant 1010:-

- Have good lubricating properties, even with heavy wiping contacts.
- Lowers resistance across contacts.
- Prevents tracking and shorting out.
- Eliminates arcing.
- Loosens and softens oxide films.
- Does not carbonize or form harmful deposits.
- Helps remove existing carbon deposits.
- Is not harmful to plastics and rubbers.
- Protects metal parts against corrosion.

Some of the above points may seem contradictory, in practice they are not. In a closed contact, the film of lubricant is squeezed thin. Because it is so thin, the current passes freely through the film across the contact. In fact, because the product takes up irregularities in the surface of the contact, resistance is lowered and effective contact area is increased.

When the contact begins to open, some of the grease strings across the gap, form bridges. As this happens, the electrical resistance increases from zero to infinity and the current is cut off. This takes place within a fraction of a millimetre and explains why no tracking or shorting out occurs in other instances. It is also this effect of reducing the flow of current, which eliminates arcing.

This while **Spanjaard Electrical Contact Lubricant 1010** does not normally allow current to flow through it, in the thin film squeezed between contacts, it allows the current to flow freely.

APPLICATION INSTRUCTIONS

While current is switched off, clean contact with electrical solvent like Spanjaard Lectro-Kleen or Electric Motor Cleaner. Allow to dry and then smear or brush thin layer of **Spanjaard Electrical Contact Lubricant 1010** onto contact surface.

TYPICAL PROPERTIES

Colour	Rust
Consistency - NLGI grade	2
Worked Penetration, 25°C, $1/10$ mm	275
Di-electric Strength, IEC/156, kV	24,4
Operating Temperature	
Continuous Service, °C	-20 to 160
Short Period Peaks, °C	200

HANDLING AND STORAGE

Store under cover with lid closed away from vibrating floor. Remove excess from skin and wash with Spanjaard Hand Cleaner followed by soap and water.

PACKAGING

500g, 5kg, 15kg.

DP/mk/Elec-Con. Lub - 1April 1998