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RESEARCH
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TRANZ Q412 Dielectric Copper Protecting Gel

Electrically Insulating, Hydrophobic

TRANZ Q412 is a grease-like electrical insulating compound designed to afford a very high degree of corrosion protection to copper surfaces.

TRANZ Q412 retains essentially the same consistency from -50°C to 200°C does not melt at high temperature, is highly water repellent and readily adheres to dry surfaces of metals, ceramics, rubber and other insulating materials. It provides a high degree of surface resistivity, resistance to tracking and to the effects of corona discharge (even under moisture condensing conditions) is basically inert non-volatile and does not react with or chemically affect materials to which it is applied.

TYPICAL PROPERTIES

Consistencies	NLGI 2 standard, but other NLGI grades can be made to order.
Bleed (30 hrs at 200°C)	Maximum 10%
Weight Loss (24 hrs at 200°C)	Maximum 2%
Dielectric Strength	Minimum 16KV/mm

CHEMICAL RESISTANCE

Dilute acids and alkalis have little effect on TRANZ Q41-2 but it is dissolved by concentrated sulphuric acid, hydrofluoric acid and alcoholic-caustic solutions.

OTHER PROPERTIES

Working Temperature Range, °C	- 50 to +200
Service Life	Limited only by contamination and wipe off.
Shelf Life	Unlimited. On very prolonged storage some bleeding may occur but the original consistency can be restored by stirring.

SAFETY

TRANZ Q412 is non-volatile, practically inert physiologically and does not cause skin irritation. It is non-toxic if accidentally swallowed. Temporary irritation may result if the compound is introduced into eyes

SOME TYPICAL APPLICATIONS OF TRANZ Q412:

- **Transmission and Power Equipment**
TRANZ Q412 is a useful and versatile maintenance material for bus bars, lead, terminals and switches, for equipment in wet and corrosive conditions, for protecting woven copper pig tails on drop out fuses and for potting cable plugs and sockets.
- **Mining Switchgear**
A thin film of TRANZ Q412 is effective in preventing corrosion and flashover on copper components of switchgear operating under damp conditions.

APPLICATION OF TRANZ Q412

TRANZ Q412 can be applied with a grease gun or by brushing or wiping. It is readily dispersed in aromatic solvents and chlorinated hydrocarbons and can then be applied by spraying or dipping - a dispersion of one part of TRANZ Q412 to four parts of solvent by weight has been found suitable for many applications. Components only require a light, but complete, coating. A glass bristle brush fitted to the end of a live-line stick enables live application dabbing of pigtails from the pole or from an elevating bucket. Contrived ultra-low surface tension of Q412 ensures compound creep into woven structures.

PACKAGING

400gm cartridges, 500gm jars, 5kg & 20kg steel lined containers.