

TRANZ LUBRICANTS is a Division of
FIELD PERFORMANCE AUSTRALIA

Telephone 24/7 AH 02 6281 1805
technical@tranzlubricants.com
sales@tranzlubricants.com
PO Box 5014 GARRAN, ACT 2605
Website www.tranzlubricants.com



RESEARCH
ANALYSIS
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TRANZ Q48 & TRANZ Q49 FireSafe

TRANZ Q48 & Q49 Holistic Electrical Conducting Compounds

TRANZ Q48 & Q49 are unique high performance holistic electrical conducting compounds which also inhibits corrosion, prevents oxidation and repel moisture. The compounds are described as "holistic", in that the whole mass is conductive, as opposed to products which simply incorporate a percentage of conductive fillers.

TRANZ Q48 is the high temperate grade has no dropping points, so will not flow, or dry out and is particularly suited for -25°C +200°C.

TRANZ Q49 FireSafe has no dropping point and serves from -25°C +190°C

FEATURES

- Very highly conductive – a low 18.5 ohms/cm resistance.
- Will not flow or dry out
- Inhibits corrosion
- prevents oxidation
- Excellent thermal stability
- Ensures electrical connection on components subject to vibration, corrosion & moisture.
- Lubricates switches, hinges, contact plugs and sockets.
- Highly water repellent and adheres to elastomers, plastics and metals.
- Ensures positive conductivity across electrical joints such as conductor joints, earth strap connections.
- Lubricates marine electrical conducting components to eliminate salt induced shorting.
- Silences RF interference from corroded HT transmission line and insulator hardware.

TRANZ Q48 & Q49 No Grit	Q48	No Grit	-60°C to 235°C	• Mechanical Lubrication • 100% conductive for all metals
	Q49XF	No Grit	-10°C to 85°C	• The XF grades are FireSafe® Brand of fire resistant compounds Mechanical Lubrication • 100% conductive for all metals

HANDLING

The material may be dispensed direct from the containers or brushed onto surfaces as required. Surfaces must be free of other greases, moisture or dust before application.

NOTE

The material is non irritating except to the eyes. If such contamination should occur, bathe with water until smarting ceases. Also, it is intensely black – wear gloves and practice clean working!

WARNING

This are highly conductive materials which must be used carefully to avoid accidentally bridging of adjacent electrical contacts.

ELECTRICAL CONDUCTING TRANZ Q48				
Q48	A unique, wholly-conductive, SOLIDS FREE AND GRIT FREE, non-melting compound for high temperature or long-life service under weathering conditions at any ambient and high leakage current temperatures. Originally developed to eliminate HT "RF Fry" emanating from leakage-sparking across the metal joints of power line insulator fittings by enabling conduction across degraded galvanic corrosion. This is a highly conductive material which must be used carefully and <u>MUST NOT</u> be allowed to accidentally bridge adjacent electrical contacts			
	Grit-free	Non-melting, all-conducting, (black colour)	- 50°C to 200°C	• inherent control capacity of both high voltage and amperage • Very highly conductive – a low 18.5 ohms/cm resistance. • Will not flow or dry out • inhibits corrosion • prevents oxidation • Excellent thermal stability, has no drop point and serves between -50°C. and +200°C • Ensures electrical connection on components subject to vibration, corrosion & moisture. • Lubricates switches, hinges, contact plugs and sockets. • Highly water repellent and adheres to elastomers, plastics and metals. • Ensures positive conductivity across electrical joints such as earth strap connections. • Lubricates marine electrical conducting components to eliminate salt induced shorting. • Silences RF interference from corroded HT transmission line hardware.
	TYPICAL PROPERTIES			
Colour	Black			
Specific Gravity (25°C)	1.2 – 1.25			
Consistencies	NLGI 00, 0,1 & 2. Others available to order			
Evaporation (24 hr at 200°C)	1.5%			
Bleed (24 hr at 200°C)	5% maximum			
Electrical Resistivity	18.5 ohm / cm at 6 cm. gap			
Flash Point	Greater than 300°C.			
Flame Resistance	Burns when ignited by persistent open flame.			
Chemical Resistivity	Very good, but will be affected by concentrated acid, and concentrated caustic solutions.			
PACKAGING	400gm cartridges, 500gm jars & 5 Kg tins, 20 Kg lined steel pails.			

ELECTRICAL CONDUCTING TRANZ FireSafe Q49				
FireSafe Q49	A unique, wholly-conductive, SOLIDS FREE AND GRIT FREE, non-melting compound for high temperature or long-life service under weathering conditions at any ambient and high leakage current temperatures. Originally developed to eliminate HT "RF Fry" emanating from leakage-sparking across the metal joints of power line insulator fittings by enabling conduction across degraded galvanic corrosion. This is a highly conductive material which must be used carefully and <u>MUST NOT</u> be allowed to accidentally bridge adjacent electrical contacts			
	Grit-free	Non-melting, all-conducting, (black colour)	- 30°C to 120°C	• inherent control capacity of both high voltage and amperage • Very highly conductive – a low 18.5 ohms/cm resistance. • Will not flow or dry out • Inhibits corrosion • Prevents oxidation • Excellent thermal stability, has no drop point and serves between - 30°C to 120°C • Ensures electrical connection on components subject to vibration, corrosion & moisture. • Lubricates switches, hinges, contact plugs and sockets. • Water repellent and adheres to elastomers, plastics and metals. • Ensures positive conductivity across electrical joints such as earth strap connections. • Lubricates marine electrical conducting components to eliminate salt induced shorting. • Silences RF interference from corroded HT transmission line hardware.
	TYPICAL PROPERTIES			
Colour	Black			
Specific Gravity (25°C)	1.3			
Consistencies	NLGI 1 & 2. Others available to order			
Evaporation (24 hr at 100°C)	1.5%			
Bleed (24 hr at 100°C)	3% maximum			
Electrical Resistivity	18.5 ohm / cm at 6 cm. gap			
Flash Point	Greater than 300°C.			
Flame Resistance	Fire Safe substantially fire resistant grade			
Chemical Resistivity	Very good, but will be affected by concentrated acid, and concentrated caustic solutions.			
PACKAGING	400gm cartridges, 500gm jars & 5 Kg tins, 20 Kg lined steel pails.			