

TRANZ LUBRICANTS is a Division of
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RESEARCH
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TRANZ Q46 & TRANZ Q47 Subseries

Gritted, Electrical Point-Conducting Compounds

Electrical industry - Conductor Bolt-up & Compression Jointing Aids

TRANZ Performance Lubricants established in 1951 has specialized in providing functional compounds (or, Chemical Tools, as we describe them) to electric power generation and distribution authorities, for more than 50 years.

These have included many original developments which have contributed to problem solving and efficiency in Australia's extensive power distribution networks these tens of thousands of power lines, supported by their hundreds of high tec glass and ceramic insulators are exposed to virtually every kind of surface pollution that exists. achievement of developing Field Performance in developing world firsts sprayable compounds to eliminate pollution flashover, together with the production a unique series of electrical conducting lubricants are examples.

This TRANZ Q46 & Q47 Subseries covers our range of so-called "gritted" compounds, electrical energy conducting compounds into which are milled with discrete metal particles. Individual products incorporating grits of varying composition and profiles for differing applications to enable maximum current conduction through spaces of the surface films of oxides and corrosion layers enable maximum current conduction.

Q46-1 & Q46-2 with aluminium grit are made for aluminium / steel combination, especially ACSR conductors. Q47-1 & Q47-2 with finely dispersed metallic Zinc are made for copper, brass and galvanized steel jointing. Both series contain specific corrosion inhibitors for their related metals combinations.

All members of this series are NON-MELTING having no dropping point, verified at the test limit of >250°C
Q46-1 & 47-1 are also available in FireSafe grades (XF grades)

In applications where it is known 'galvanic' corrosion will occur, it is recommended not to use metal gritted compounds, instead use Q48 Holistic Conducting compound, which is a functional lubricant.

ELECTRICAL CONDUCTING GREASE GELS (COMPOUNDS) - GRITTED AND NON GRITTED				
TRANZ Q46 & Q47 Gritted	Gritted Compounds are weatherproof compounds for jointing up line hardware and conductors, by compression or bolted fittings, where the metal grit edges in the compound, strike through the adherent oxide films on components to greatly increase the current flow. TRANZ Lubricants have been supplied to the Dept. of Defence and their contractors since 1959. Since then, more than 80 different DEFSTAN greases and compounds have been developed for supply to them to the Australian Government Joint Fuels and Lubricants Agency, including conducting compounds for aircraft NATO, CG357, JSD Code XG273 and Spec. DTD 900/4914 with NATO/JSD XG-220 and DEFSTAN 91-8 Conducting Lubricant for the Turret races on AFVs.			
	TRANZ #	Grit Detail	Service temp	General information
	Q46-1	Coarse, very sharp	-25°C to 80°C	- HT Line jointing, ACSR - Hi amps, aluminum / steel hardware - Non Lubricant Warning: Grit content precludes use in mechanical application such as pumps etc.
	Q46-1XF	Coarse, very sharp	-10°C to 85°C	- The XF grades are FireSafe® Brand of fire resistant compounds - HT Line jointing, ACSR - Hi amps, aluminum / steel hardware - Non Lubricant Warning: Grit content precludes use in mechanical application such as pumps etc.
	Q46-2	Coarse, very sharp	-60°C to 235°C	- High Temperature, Hi amps, aluminum / steel hardware / copper / brass /gal. / steel - Non Lubricant Warning: Grit content precludes use in mechanical application such as pumps etc.
	Q47-1	Medium, granular	-10°C to 80°C	- Smaller fittings, copper /brass /gal. / steel - Especially for galvanized steel. - Non Lubricant Warning: Grit content precludes use in mechanical application such as pumps etc.
	Q47-1XF	Medium, granular	-10°C to 85°C	- The XF grades are FireSafe® Brand of fire resistant compounds - Switch gear - Non Lubricant Warning: Grit content precludes use in mechanical application such as pumps etc.
	Q47-2	Medium, granular	-60°C to 235°C	- Especially for galvanized steel - For transformers - Non Lubricant Warning: Grit content precludes use in mechanical application such as pumps etc.
	Q47-3	Fine, plate like	-60°C to 235°C	- Mechanical Lubricant for Low speed factor equipment - Switch gear - Aluminum / steel hardware / copper / brass /gal. / steel
	Q47-5	Fine	-60°C to 235°C	Specific for Aluminium - includes oxidation inhibitor
	Q47-8	Medium - Fine	-50°C to 200°C	- Full conductance across copper - includes oxidation inhibitor
TRANZ Q48 & 49 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
PACKAGING	450 Gm. Cartridges, 500gm jars, 5Kg tins, 20Kg open head pails * 20 Kg pails are normally tapered but on special request can be supplied with parallel sides to enable use of pumping / dispensing equipment with wall-sweeping eductor plates.			