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EXCELLENCE IN TRIBOPHYSICS SINCE 1951

PROUDLY 100% AUSTRALIAN DEVELOPED, MADE, OWNED & DISTRIBUTED

TRANZ Thermic Energy Control

From the Energy Transfer & Control series



TRANZ LUBRICANTS is a Division of
FIELD PERFORMANCE AUSTRALIA

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Summary TRANZ Q Series ETC Compounds - Energy Transfer & Control

PERFORMANCE AREA

The Transfer Facilitation, Deflection and Inhibition of Thermic, Kinetic, Electric, Energy.

Over fifty TRANZ Lubricants broadly serving temperature ranges between **-95°C, and currently in development compounds including service to 9,000°C.**

Since 1951, TRANZ PERFORMANCE Lubricants and TRANZ Chemical Tools®, many of them unique, have been serving Australian Manufacturers and Authorities in the provision of functional compounds and lubricants for thousands of different applications. No area of product development better represents our uniqueness than Q Series gels for controlling energy vectors. Major involvement in product research for Electronics and Power Systems since 1953 have resulted in the evolution of many important TRANZ Chemical Tools. A wide variety of Fluids, Compounds, Sealants, Resins, Elastomers and Coatings have been developed to perform alone or as part of systems either to insulate or conduct energy, both electrical and thermal and to protect associated hardware and support systems from energy as well as from the environment.

From this work has come a comprehensive class of performance chemicals and compounded materials whose functional contribution to Operation and Maintenance is so direct and significant that they fulfill their requirement as precisely as a mechanical tool. Accordingly, we have identified these materials with our trademark TRANZ and our product range 'CHEMICAL TOOLS'.

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TRANZ Q10 to Q19 Sub Series

Functional Fluids & Compounds for Control of Thermal Energy

SUMMARY

FIELD PERFORMANCE manufactures a range of High Performance ETC Energy Transfer compounds, the TRANZ Q Series Branded Compounds for insulation, conduction or other control, of energy originating from, Electrical, Thermal and Mechanical sources. A broad summary and the numbering logic of the entire range is available in our Data Sheet entitled The TRANZ Q Series Compounds - A Summary.

As a part of the entire Q Series Energy Control Range, the TRANZ Q10-19 Subseries are characterized by inherent, extreme thermal stability, combined with a further individual functional capacity to either absorb, transfer, conduct or insulate, thermal energy. In addition, TRANZ Q14, Q15 & Q19 Dual Functionality Compounds, have an additional functional capacity relating to collateral control of electrical energy.

These functional properties of the TRANZ Q10-19 Subseries, are available mostly without resort to the inclusion of large metal particles (ie. "grits") excepting where their presence is desirable. Accordingly, certain TRANZ Q10-19 Subseries are suitable for applications where, depending on the specific grade chosen, excellent mechanical characteristics enable pumpability in the case of fluids and the softer compounds, together with their use where mechanical lubrication in rotating or sliding contact is also required. However in the case of colloidal or near-colloidal suspensions, effective agitation of the suspension is advisable prior to pumping - individual Data Sheets refer where applicable.

TRANZ THERMAL ENERGY CONTROL

Thermal Insulating, Thermal Conducting - Thermal Transfer & Storage

TRANZ Q10 – Q19 Sub Series	Q10	Thermal Insulating Fluids
	Q11	Thermal Insulating Compound Lubricants
	Q12	Thermal Conducting (Fine Clearances) Viscous Fluids
	Q13	Thermal Conducting Compound (grease-like) Lubricants, Bedding transistors and heat sinks
	Q14	Dual Function Thermal Conducting & Electrical Conducting, Compound.
	Q15	Dual Function Thermal Conducting & Electrical Insulating, Compound.
	Q19	Dual Function Thermal Conducting & Laser Transmission developed for for RAAF FA18C <i>Pavetack</i> Pod

PHYSICAL PRESENTATIONS

The range of TRANZ Q Subseries compounds are offered in broadly standard viscosities and API consistencies. Production of grades to alternative specifications at virtually any consistency, as individual service conditions of the products dictate, can be considered for individual customer applications or service requirements.

PACKAGING

Standard packaging is in 250G & 500G jars; 2.5kG & 5 kG tinplate canisters, 300 G grease cartridges, and 20 & 60 kG lined, steel, open-head pails. However, virtually any format can be prepared for specific service. Inquiries about these possibilities for preparation of special forms, special packaging or even modified performance properties, are invited.