

Technical Data Sheet

Chemtools® Pty Ltd | Ph: 1300 738 250 (+61 2 9833 9866) | Unit 2, 14 – 16 Lee Holm Road ST MARYS NSW 2760
Safety Data Sheets, product photos, and other information can be obtained by visiting www.chemtools.com.au



Thermalle™ TEF-EASE

Dielectric Dissimilar Metals Anti-Corrosion & Anti-Seizing Gel

PART NUMBER	AVAILABLE SIZE*
CT-TM005-05PT	5ml Syringe
CT-TM005-10PT	10ml Syringe
CT-TM005-50T	50g Tube
CT-TM005-250G	250g Tub
CT-TM005-1KG	1Kg Tub

*Available colours and/or sizes may change without notice.

DESCRIPTION

Thermalle™ TEF-EASE Dissimilar Metals Anti-Corrosion & Anti-Seizing Gel is a pure synthetic grease with no silica, petroleum additives or volatile solvents. It contains sub-micron sized PTFE particles for corrosion prevention and resistance to seizure and galling.

With excellent electrical insulation and protection through its dielectric properties, TEF-EASE can be used on dissimilar metals across a wide temperature range without curing or melting. It is completely waterproof and resists wash-out in both salt and fresh water, performing perfectly under extreme pressures and high loads.

TEF-EASE adheres well to surfaces, ensuring long-lasting lubrication and prevention of metal-to-metal contact. It is also compatible with most plastics and rubbers.

APPLICATIONS

Remember to always refer to the product's user manual or consult with a technical expert for specific application instructions and recommendations.

MARINE: RECOMMENDED USES & APPLICATIONS

Boat Maintenance

- Lubricating and protecting hinges, latches, and locks on doors and hatches
- Preventing corrosion and seizure of metal fittings, such as cleats, winches, and pulleys
- Lubricating throttle and control cables to ensure smooth operation
- Protecting and lubricating electrical connections and terminals to prevent corrosion and enhance conductivity
- Lubricating and protecting rubber seals and gaskets, such as those found on windows and hatches

Outboard and Inboard Engines

- Lubricating and protecting spark plug threads, preventing corrosion, and increasing ease of removal
- Lubricating throttle linkages and control mechanisms for smooth operation
- Protecting and lubricating rubber components, such as o-rings, gaskets, and seals to prevent deterioration and leaks
- Lubricating and protecting metal components, such as propeller shafts and bearings to reduce friction and wear
- Preventing corrosion and seizure of bolts, nuts, and screws in the engine compartment

Trailer Maintenance

- Lubricating and protecting trailer hitch components to ensure smooth and secure towing
- Preventing corrosion and seizure of trailer wheel lug nuts and bolts
- Lubricating winches and rollers for smooth operation during boat loading and unloading
- Protecting and lubricating trailer wiring connections to prevent corrosion and ensure proper functioning of lights and brakes

Marine Electronics

- Lubricating and protecting electrical connectors and plugs to prevent corrosion and ensure reliable connections
- Protecting and lubricating switches, knobs, and buttons for smooth operation

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- Preventing corrosion and water intrusion in exposed electronic components, such as depth sounders and navigation systems

Fishing Equipment

- Lubricating and protecting fishing reel components, such as gears, bearings, and drag systems, for smooth operation and extended lifespan
- Preventing corrosion and seizure of fishing hooks, swivels, and snaps
- Lubricating and protecting fishing rod guides to reduce friction and line wear

INDUSTRIAL: RECOMMENDED USES & APPLICATIONS

Machinery & Equipment Maintenance

- Lubricating and protecting moving parts, such as gears, bearings, and slides, in industrial machinery
- Preventing corrosion and seizure of bolts, nuts, and screws in equipment assemblies
- Lubricating and protecting chains, conveyor belts, and pulleys for smooth operation and extended lifespan
- Protecting and lubricating seals, gaskets, and o-rings to prevent leaks and ensure proper sealing

Manufacturing Processes

- Lubricating and protecting molds, dies, and tooling in injection molding and metal fabrication processes
- Preventing sticking and improving release properties in molding and casting operations
- Lubricating and protecting threaded connections and fasteners in assembly operations
- Reducing friction and wear in sliding surfaces and linear motion systems

Automotive Industry

- Lubricating and protecting rubber components, such as door seals and weatherstripping, to prevent drying out and cracking
- Preventing corrosion and seizure of bolts, nuts, and screws in automotive assemblies
- Lubricating throttle linkages, hinges, and latches for smooth operation
- Protecting and lubricating electrical connections and terminals to prevent corrosion and enhance conductivity

Electrical and Electronic Applications

- Lubricating and protecting electrical connectors, switches, and contacts to prevent corrosion and ensure reliable connections
- Protecting and lubricating potentiometers, variable resistors, and sliders for smooth operation
- Preventing moisture intrusion and corrosion in electrical cabinets, control panels, and junction boxes
- Lubricating and protecting rubber seals and gaskets in electrical enclosures

Aerospace and Aviation

- Lubricating and protecting aircraft components, such as hinges, latches, and control mechanisms, for smooth operation and extended lifespan
- Preventing corrosion and seizure of fasteners, connectors, and electrical contacts in aircraft assemblies
- Lubricating and protecting rubber seals and gaskets to ensure airtight and watertight seals
- Reducing friction and wear in landing gear mechanisms and flight control systems

GENERAL APPLICATION GUIDE

Note: Always refer to the product's user manual or consult with a technical expert for specific application instructions and recommendations.

Ensure all surfaces and components are dry and free of all contaminants and old grease prior to application.

Apply by brush, spatula or pneumatic dispenser with good coverage and an even distribution.

Application is recommended in thin cross-sectional thicknesses down to 1mm.

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TECHNICAL DATA

Appearance	Smooth, translucent white gel
Acidity/Basicity	Neutral
Specific Gravity	1.05
Temperature Range	-50°C to +200°C
Evaporation	2% max
Oil Separation, WT % (ASTM D1742)	<1%
Dielectric Constant	3.2
Dielectric Strength	20 kV/mK
Volume Resistivity	1 x 10 ¹⁵ Ω-cm
Shelf Life	>3 years when stored under recommended conditions

FIRST AID & SAFETY PRECAUTIONS

Always refer to Safety Data Sheet/s before use. Use proper Personal Protection Equipment. Do not get in eyes, on skin, or on clothing. Use with adequate ventilation. Avoid breathing fumes. Keep away from heat, sparks, open flames, and hot surfaces. This product may produce adverse health conditions, ranging from minor skin irritation to serious systemic effects. It should not be used, stored, or transported until the handling precautions and recommendations as stated in the Safety Data Sheet/s for this product have been fully understood by all persons who will work with the material.

STORAGE & TRANSPORT

Refer to Safety Data Sheet/s for recommendations. As a general precaution, keep containers tightly closed, protect from sunlight, and do not expose to temperatures exceeding 50°C. Store in a cool, dry place at room temperature (5 – 40°C). Do not return any unused material to its original container. Containers should be secured and stored upright during transit.

DISCLAIMER

Every effort has been made to ensure the information provided in this document is accurate at the date of publication. Chemtools® Pty Ltd expressly recommends that the user make his/her own assessment to determine the suitability of the product for its intended purpose prior to application. Chemtools® Pty Ltd shall not be responsible for loss, damage, or injury, resulting from the reliance upon, or failure to adhere to, any recommendations or information contained herein; nor from abnormal use of the material; nor from any hazard inherent in the nature of the material.