

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™ VACUSEAL-PLUS Silicone High Vacuum Grease

PART NUMBER	AVAILABLE SIZE*
CT-TM012-50T	50g Tube
CT-TM012-250G	250g Tub

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

DESCRIPTION

Thermalle™ VACUSEAL-PLUS Silicone High Vacuum Grease is a high-quality lubricant for use in pressure and vacuum units up to 10⁻⁶ millibars, to reduce leakage by filling gaps and lowering permeation rates. Its silicone base ensures resistance to oxidation and thermal degradation, and contains no additives that react negatively with system components.

VACUSEAL-PLUS lubricates and seals metals, plastics, and elastomers, including o-rings, gaskets, taps, and plug and control valves, and offers high lubricity for sliding and rolling bearings and gears in pumps and compressors under wide and high temperature conditions. It performs well as an anti-seize for glass components while protecting from water ingress, corrosion formation, and most chemical intrusions.

RECOMMENDED USES

- Sealing and lubrication of vacuum components and feedthroughs
- Sealing glass desiccators and lubricating glass seals
- Lubrication of o-rings on microscopes
- Lubricating and sealing fine threads
- Lubricating stop-cocks, plug valves, control valves, and flow meter bearings
- Lubrication of laboratory equipment
- Lubricating synthetic rubber gaskets and seals in high temperature applications
- Protecting seals in an aqueous environment
- Protecting from corrosion where applied

APPLICATION

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

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

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

TECHNICAL DATA

Appearance	Translucent white, smooth and homogenous
Specific Gravity at 30°C	1.07
Melting Point	None, non-melting
Oil Separation 20hrs @100°C	0%
Working Temperature	-40°C to +260°C
Thermal Conductivity	0.16 Watts/Meter K
Density BS (ISO 2781)	1.00 g/cm ³
Bleed %	< 6%
Shelf Life	2 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.

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



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, away from sources of heat and ignition. 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.