

RHODORSIL[®]

GREASE 33M

April 1998

TECHNICAL DATA SHEET

PRODUCT DESCRIPTION

RHODORSIL[®] GREASE 33M consists of a methylphenyl silicone fluid thickened with a lithium soap. It is specifically designed for lubricating applications requiring extreme low temperature capabilities (-70°C to 175°C).

PRODUCT FEATURES AND BENEFITS

- Heat resistant (slight lowering of viscosity with increasing temperature but does not decompose and gives a long service life).
- Very little change in consistency with temperature (does not stiffen when cold, does not thin out at high temperatures).
- Very good stability (especially in contact with water and most corrosive media).
- Good resistance to radiations (no change of penetration, no signs of deterioration).
- Negligible effect under vacuum (no change in consistency).

TYPICAL APPLICATIONS

- Lubrication of ball bearings or moving parts operating under severe weather conditions or working at extreme high or low temperatures:
 - ski lift-carrier shafts, freezing equipment, electric motors, windscreen wipers, motor gears, rotating beacons for airport run ways, valves in the petroleum industry.
- Lubrication of precision equipment in which the grease consistency must be nearly constant:
 - aircraft switches, geo physical instruments, cameras, photographic equipment.
- Lubrication of ball-bearings which must operate at the same speed under very low to very high temperatures:
 - clockwork mechanisms, X-ray equipment, synchronized motors.

TYPICAL PROPERTIES

<u>PROPERTY</u>	<u>TYPICAL VALUE</u>
Appearance	Brown, Homogenous
Penetration, (Worked 60X), ASTM D217-48	280
Bleed, 150°C (300°F)/24 hrs.	2.5%
Evaporation, 24 hours at 150°C (300°F)	2.5%
Specific Gravity at 20°C	1.03
Low Temperature Limit (°C)	-70
High Temperature Limit (°C), continuous service	+175
intermittent service	+200
Minimum drop point (°C), ASTM D 566-42	205
Minimum flash point (°C)	300
Thermal Conductivity (g cal/cm ² ·sec·°C./cm)	2.8.10 ⁻⁴
Specific Heat (cal/g/°C)	0.38

NOT FOR PRODUCT SPECIFICATION: The technical data contained herein are intended for reference only and **are not** intended for use in preparing sales specifications. For assistance and recommendations on sales specifications for this product, contact RHODIA VSI at (800) 356-7560 or (518) 285-6300.



USAGE GUIDELINES FOR RHODORSIL® GREASES AND COMPOUNDS

SAFETY PRECAUTIONS

USE MATERIAL IN ACCORDANCE WITH MATERIAL SAFETY DATA SHEET

Contact with eyes may cause transitory irritation which usually disappears in a few hours. If eye contact occurs, flushing with water for at least 15 minutes will relieve discomfort. If irritation or discomfort persists, obtain medical attention. **Keep product away from children**. To obtain a MSDS for this product, contact RHODIA VSI Customer Service (800) 356-7560.

SHELF LIFE AND STORAGE

Shelf life of this material is six (6) months from date of shipment. Store material in original container in a cool, dry location at 80°F (27°C) or below. Material removed from containers may become contaminated during use. Do not return any material to the original containers. Extended shelf life is probable. Check consistency before use.

CLEAN UP AND REMOVAL

CAUTION: Spilled material will cause slippery conditions. Wipe up and clean spills **immediately** to prevent possible injury by slipping.

This material may be cleaned up and removed with non-polar solvents such as mineral spirits, hexane, toluene, and chlorinated ethanes. It is generally unaffected by polar solvents such as alcohols, ketones, ethers, or water. Make sure that the choice of solvent does not affect the substrate being cleaned.

Whenever solvents are used, proper safety precautions must be observed. It is advisable to consider **ALL** solvents as toxic and use them only in well ventilated areas and wear proper protective equipment such as goggles, gloves, respirators, and protective clothing. Avoid prolonged exposure to solvents. Be aware of their flammability status. Consult applicable OSHA, EPA and other federal, state and local regulations on use and disposal of solvents.

FOR THE NAME OF YOUR NEAREST RHODIA VSI SALES REPRESENTATIVE OR DISTRIBUTOR, AND FOR TECHNICAL ASSISTANCE ON THIS PRODUCT AND OTHER RHODIA VSI PRODUCTS, CONTACT CUSTOMER SERVICE AT (800) 356-7560

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