

Sil-Lube™ #11

HIGH PERFORMANCE LUBRICANT & GREASE

Sil-Lube™ #11 is a grease like dimethyl silicone compound designed for a wide variety of lubrication, parting, and protective applications. It is a stiff, tacky, non-melting silicone compound with good resistance to water and most chemicals. It provides excellent dielectric properties and is a superior moisture barrier. It may be used for many applications including as a valve and O-ring lubricant in small, hydraulic piston assemblies and as a high vacuum sealant in laboratory services. Its lubricity and sealing properties support a wide range of applications.

Sil-Lube™ #11 is practically non-volatile and non-drying in use. It is food grade being permitted for food use under FDA regulations 21 CFR 175.300. It also meets the requirements of NSF Standard 51 for use in food processing equipment and NSF standard 61 for use in potable water applications.

Benefits:

- Electrically Insulating
- Serviceable from -40°C to 204°C
- Resistant to oxidation & Drying out
- Moisture & chemical resistant
- Works well as a sealant
- High performance lubricant
- Permitted for Food Use under FDA regulations 21 CFR 175.300

HANDLING PROPERTIES	VALUE	TEST METHOD
<u>Sil-Lube™ #11</u>		
Appearance	Translucent Liquid	Visual
NLGI Grade (National Lubricating Grease Institute)	#3-4	ASTM D217
Penetration, unworked, mm/10	170 – 230	
Penetration, worked 60 mm/10	260	
Density	1.00 – 1.06 g/cm ³	ASTM E-201
Bleed, 24 hrs. at 200°C	<1%	
Evaporation, 24 hrs. at 200°C	< 2%	
<u>Electrical</u>		
Dielectric Constant at 1 KHz	2.2	ASTM D-150
Dissipation Factor at 100 KHz	< 0.0016	ASTM D-150
Dielectric Strength, 50mil Gap	> 800 V/mil	ASTM D-149
Volume Resistivity at 25°C	> 4 x 10 ¹⁴ ohm-cm	ASTM D-150

Values are based on laboratory or average production results – not for specification purposes.

PROCESSING AND APPLICATION INSTRUCTIONS

For best results apply to clean dry surfaces. Sil-Lube™ #11 may be applied by hand by brushing, wiping, or applying with tools. It may also be applied with automated dispensing equipment, but certain high pressure dispensing equipment may cause separation or compaction, test thoroughly prior to

Product Datasheet



adoption in production. Sil-Lube™ #11 is usable with some grease guns, but not all and could cause some to seize, test to determine suitability with the equipment you propose to use.

Sil-Lube™ #11's use on surfaces that will be painted or bonded with adhesives may require extensive cleaning to remove all traces of silicone residues. This compound may slightly swell n-butyl rubber and some other types of rubbers including some types of silicone rubbers. Test rubbers in direct contact with the compound for swelling or shrinkage to ensuring it is acceptable for your application. As each application will vary in chemical exposure, pressures, flow rates, relubrication requirements, and equipment design, the Sil-Lube™ #11 should be evaluated before use by the end user.

PACKAGING AVIALABLE

This product is available in a wide range of package sizes including 1-gallon, 5-gallon pails, and cartridges including 12oz and 20oz. We can also supply it in smaller syringe sizes such as 30cc EFD syringes or in aluminum squeeze tubes by request. Please contact use for information about other custom package sizes if that would be of interest.

STORAGE GUIDELINES

Store the Sil-Lube™ #11 in a clean, dry environment in its tightly closed original containers. Store at 59°F – 95°F (15°C - 35°C). Tightly re-seal containers after use. If the recommended storage conditions are observed the products will have a minimum shelf-life of 48 months from the date of shipment.

HANDLING PRECAUTIONS

Mandatory and recommended industrial hygiene procedures should be followed whenever these products are being handled and processed. For additional information please consult the corresponding material safety data sheets.

Sil-Lube™ #11 WARNING! May cause skin and eye irritation. Do NOT get in eyes, on skin, or clothing. Wash skin and clothing thoroughly after handling. Avoid breathing vapor or mist and use with adequate ventilation. Keep containers closed when not in use. Do NOT take internally.

FIRST AID

In case of contact: **Skin** – Immediately wash skin thoroughly with mild soap and water. Remove contaminated clothing and wash before reuse. Destroy contaminated shoes and other articles made of leather. **Eyes** – Immediately flush eyes with plenty of water for 15 minutes and get prompt medical attention. **Inhalation** - Remove person to fresh air. Administer oxygen or artificial respiration if necessary. Call a physician. **Ingestion** - Do not induce vomiting. Dilute with plenty of water and contact physician immediately. Never give anything by mouth to an unconscious person.

DISCLAIMER - IMPORTANT: The following supersedes Buyer's documents. **SELLER / MANUFACTURER MAKES NO REPRESENTATION OR WARRANTY, EXPRESS OR IMPLIED, INCLUDING OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.** No statements herein are to be construed as inducements to infringe any relevant patent. Under no circumstances shall Seller / Manufacturer be liable for incidental, consequential or indirect damages for alleged negligence, breach of warranty, strict liability, tort or contract arising in connection with the product(s). Buyer's sole remedy and Seller's sole liability for any claims shall be Buyer's purchase price. Data and results presented are based on controlled or laboratory work and must be confirmed by Buyer by testing for its intended conditions of use. The product(s) has not been tested for, and is therefore not recommended for, uses for which prolonged contact with mucous membranes, abraded skin, or blood is intended; or for uses for which implantation within the human body is intended. This Product is neither tested for nor represent as suitable for medical or pharmaceutical use.

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