

Electrolube® SPG

Special Plastics Grease

DESCRIPTION

Electrolube® SPG is a synthetic grease offering outstanding low temperature performance and excellent compatibility with thermoplastics, including ABS and Polycarbonate, even at elevated temperatures. **SPG** is an efficient mechanical lubricant for plastics both with themselves and with metals. A harder, more adhesive version of SPG is available called SPGA.

READ ENTIRE TECHNICAL DATA SHEET BEFORE USING THIS PRODUCT

FEATURES AND BENEFITS

- Excellent plastics compatibility; suitable for use with sensitive plastics (testing advised)
- Tacky characteristic; high tenacity to stay in contact zone
- Stays where placed even on vertical surfaces; ideal for plastic-plastic lubrication
- Excellent at holding components in place during assembly

APPROVALS

Standard	Status
RoHS Compliant (2015/863/EU)	Yes

PRODUCT INFORMATION

Please contact your customer service representative for information on available package sizes.

PHYSICAL PROPERTIES

Category	Results
Typical Properties	
Color	Light Brown
Density (g/mL)	0.9
Temperature Range (°C)	-40 to 125
Evaporation Weight Loss % 7 days @ 100 °C	0.6
125 °C	0.6
Copper Strip Corrosion (IP154 / ISO 2160)	≤ 1b
Drop Point (IP32 / ISO 2176 (°C))	>250
Cone Penetration Worked (ASTM D217, 60 Strokes @ 20 °C)	320
Cone Penetration Un-Worked (ASTM D217) 20 °C	300
-40 °C	220
Consistency (NLGI)	1
Fließdruck (Flow Pressure) (DIN 51805, mbar @ -40 °C)	450
Oil Bleed / Separation (IP121)	5%
Plastic Compatibility ABS	Test
PC	Test
Thickener	Clay
UV Trace	No
Base Oil Properties	
Base Oil Type	PAO
Base Oil Viscosity (Kinematic Viscosity (cSt)) 40 °C	46
100 °C	7.8
Base Oil Viscosity Index (ASTM D 2270)	139
Pour Point (ASTM 97 (°C))	-57

Category	Results
Flash Point (COC ASTM D 92 (°C))	>200
Mechanical Properties	
4 Ball Wear (mm)	2.508
Weld Load (kgf)	126

APPLICATION GUIDELINES

Depending on packaging type, this lubricant can be applied by one of the following methods (although this list is not exhaustive):

Manually by way of a syringe

Semi-automated using syringe dispensing

Fully automated by way of a follower/pusher plate with dispensing system

TYPICAL PRODUCT APPLICATION

SPG has been formulated to ensure compatibility with plastics and metals commonly used in the manufacture of electrical switches. It is particularly recommended as an assembly aid in switch manufacture (montage grease). It is also ideal to reduce wear in timers and other plastic/plastic friction points (e.g., photocopiers).

ADDITIONAL INFORMATION

Oil separation in greases is a natural occurrence, and small amounts of separation are expected.

Typically, during long term storage, the oil and thickeners will slowly begin to separate. Separation can be accelerated by high temperatures and storage orientation.

If oil separation is observed, we recommend stirring gently with a stainless-steel blade/spatula, in the original packaging, until the grease shows a uniform color and consistency.

Shelf Life

Description	Shelf Life
Bulk	72 Months
Syringe	48 Months

SAFETY & WARNING

It is recommended that the company/operator read and review the Safety Data Sheets for the appropriate health and safety warnings before use. **Safety Data Sheets are available.**

CONTACT INFORMATION

www.macdermidalpha.com

<p>North America 140 Centennial Avenue Piscataway, NJ 08854 1.800.367.5460</p>	<p>Europe Ashby Park Coalfield Way Ashby de la Zouch Leicestershire, LE65 1JR, UK 44.01530.41960</p>	<p>Asia 8/F., Two Sky Parc 51 Hung To Road Kwun Tong, Kowloon, Hong Kong, SAR China 852.2500.5365</p>
---	---	--

Also read carefully warning and safety information on the Safety Data Sheet. This data sheet contains technical information required for safe and economical operation of this product. READ IT THOROUGHLY PRIOR TO PRODUCT USE . Emergency safety directory assistance: US 1 202 464 2554, Europe + 44 1235 239 670, Asia + 65 3158 1074, Brazil 0800 707 7022 and 0800 172 020, Mexico 01800 002 1400 and (55) 5559 1588

DISCLAIMER: All statements, technical information and recommendations contained herein are based on tests we believe to be reliable, but the accuracy or completeness thereof is not guaranteed. No statement or recommendation shall constitute a representation unless set forth in an agreement signed by officers of seller and manufacturer. NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE OR ANY IMPLIED WARRANTY IS MADE. The following warranty is made in lieu of such warranties and all other warranties, express, implied, or statutory. Products are warranted to be free from defects in material and workmanship at the time sold. The sole obligation of seller and manufacturer under this warranty shall be to replace any noncompliant product at the time sold. Under no circumstances shall manufacturer or seller be liable for any loss, damage or expense, direct, indirect, incidental or consequential, arising out of the inability to use the product. Notwithstanding the foregoing, if products are supplied in response to a customer request that specifies operating parameters beyond those stated above, or if products are used under conditions exceeding said parameters, the customer by acceptance or use thereof assumes all risk of product failure and of all direct, indirect, incidental and consequential damages that may result from use of the products under such conditions, and agrees to exonerate, indemnify, defend and hold harmless MacDermid, Incorporated and its affiliates therefrom. No suggestion for product use nor anything contained herein shall be construed as a recommendation to use any product in a manner that infringes any patent or other intellectual property rights, and seller and manufacturer assume no responsibility or liability for any such infringement.

© 2019 MacDermid, Inc. and its group of companies. All rights reserved. "(R)" and "TM" are registered trademarks or trademarks of MacDermid, Inc. and its group of companies in the United States and/or other countries.