

## SPGA

### Special Plastic Grease - Adhesive

#### DESCRIPTION

**SPGA** is a synthetic grease offering good low temperature performance and excellent compatibility with thermoplastics, including ABS and Polycarbonate. It has been formulated to a harder consistency (NLGI 3) than its predecessor SPG whilst additionally having a “tacky” adhesive characteristic which vastly improves its resistance to being squeezed out of the “contact zone”.

READ ENTIRE TECHNICAL BULLETIN BEFORE USING THIS PRODUCT

#### FEATURES AND BENEFITS

- Excellent plastics compatibility; suitable for use with sensitive plastics (testing advised)
- Harder consistency than standard SPG; improved adhesive characteristic to stay in contact zone
- Very efficient mechanical lubricant; ideal for plastic-plastic lubrication
- Excellent at holding components in place during assembly

#### APPROVALS

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

#### PRODUCT INFORMATION

For available packaging sizes please visit:

[electrolube.com](http://electrolube.com)

### PHYSICAL PROPERTIES

| Category   | Results     |
|--|-------------|
| <b>Typical Properties</b>                                  |             |
| Color  | Light Brown |
| Density (g/mL)   | 0.9         |
| Temperature Range (°C)                                     | -40 to 125  |
| Evaporation Weight Loss % 7 days @ 125 °C                  | 0.46        |
| Copper Strip Corrosion (IP154 / ISO 2160)                  | ≤ 1b        |
| Drop Point (IP32 / ISO 2176 (°C))                          | >250        |
| Cone Penetration Worked<br>(ASTM D217, 60 Strokes @ 20 °C) | 250         |
| Cone Penetration Un-Worked (ASTM D217)                     |             |
| 20 °C  | 200         |
| -40 °C   | 140         |
| Consistency (NLGI)   | 3           |
| Fliessdruck (Flow Pressure)<br>(DIN 51805, mbar @ -40 °C)  | 450         |
| Oil Bleed / Separation (IP121)                             | 5%          |
| Plastic Compatibility                                      |             |
| ABS  | Test        |
| PC   | Test        |
| Thickener  | Clay        |
| UV Trace   | Yes         |
| <b>Base Oil Properties</b>                                 |             |
| 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         |
| Flash Point (COC ASTM D 92 (°C))                           | >200        |

| Category                     | Results |
|------------------------------|---------|
| <b>Mechanical Properties</b> |         |
| 4 Ball Wear (mm)             | 2.425   |
| 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

SPGA 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) and as a damping grease to improve the “feel characteristics” of switches.

### ADDITIONAL INFORMATION

**Shelf Life:** 36 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

To confirm this document is the most recent version, please contact

**TechnicalSupportTeam@hkw.co.uk**

[www.electrolube.com](http://www.electrolube.com)

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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

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