

## HVG High Voltage Grease

HVG is a synthetic grease, developed for use on high voltage/high current circuit breaker switchgear contacts to significantly reduce wear and arcing. The product has good low temperature performance and good plastics compatibility, although testing is always advised. HVG can also be used as a mechanical lubricant for metal interfacing surfaces.

- Developed for high voltage/high current applications; ideal for circuit breaker switchgear
- Good plastics compatibility; testing of sensitive plastics is advised
- Stable over a wide temperature range; low oil bleed even at elevated temperatures
- Dramatically reduces arcing and wear; good mechanical lubrication

**Approvals**                      **RoHS Compliant (2015/863/EU):**                      **Yes**

### Typical Properties

|  |                      |
|--|----------------------|
| Colour   | Cream                |
| Density (g/ml)   | 0.995                |
| Temperature Range (°C)                                 | -35 to +130          |
| Vapour Pressure (Torr @ 20°C)                          | 0.001                |
| Evaporation Weight Loss (% 7 days @ 100°C)             | 0.57                 |
| Copper Strip Corrosion (IP154 / ISO 2160)              | ≤1b                  |
| Drop Point (IP32 / ISO 2176 (°C))                      | >200                 |
| Cone Penetration Worked (ASTM D217, 60 strokes @ 20°C) | 320                  |
| Cone Penetration Un-worked (ASTM D 217 @ 20°C)         | 300                  |
| Cone Penetration Un-worked (ASTM D 217 @ -40°C)        | 230                  |
| Consistency (NLGI)                                     | 1                    |
| Fliessdruck (Flow Pressure) (DIN 51805, mbar @ -40°C)  | 320                  |
| Oil Bleed / Separation (IP121)                         | 5%                   |
| Silver Corrosion (DIN 51759, 3hrs @100°C)              | No Change            |
| Plastic Compatibility - ABS                            | Test                 |
| Plastic Compatibility - PC                             | Test                 |
| Thickener  | Lithium Complex Soap |
| UV Trace   | No                   |

#### Copyright Electrolube 2013

All information is given in good faith but without warranty. Properties are given as a guide only and should not be taken as a specification.

Electrolube cannot be held responsible for the performance of its products within any application determined by the customer, who must satisfy themselves as to the suitability of the product.

Ashby Park, Coalfield Way,  
 Ashby de la Zouch,  
 Leicestershire LE65 1JR

T +44 (0)1530 419 600

F +44 (0)1530 416 640

BS EN ISO 9001:2008  
 Certificate No. FM 32082

**Base Oil Properties**

|  |                      |
|--|----------------------|
| Base Oil Type  | Poly Alkylene Glycol |
| Base Oil Viscosity @ 40°C (Kinematic Viscosity (cSt))  | 235                  |
| Base Oil Viscosity @ 100°C (Kinematic Viscosity (cSt)) | 40                   |
| Base Oil Viscosity Index (ASTM D 2270)                 | 210                  |
| Pour Point (ASTM D 97 (°C))                            | -37                  |
| Flash Point (COC ASTM D 92 (°C))                       | >200                 |

| <b><u>Description</u></b>  | <b><u>Packaging</u></b> | <b><u>Order Code</u></b> | <b><u>Shelf Life</u></b> |
|----------------------------|-------------------------|--------------------------|--------------------------|
| <u>High Voltage Grease</u> | 500g Bulk               | HVG500G                  | 36 months                |

**Typical Product Applications**

HVG has been developed for applications such as the sliding and fixed contacts of isolator switches. Thorough testing is advised under actual applications conditions before committing to full scale production.

Revision 3: July 2021