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

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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

Description	Packaging	Order Code	Shelf Life
High Voltage Grease	500g Bulk	HVG500G	72 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.

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