

EPC

Electro-Plating Compound

DESCRIPTION

EPC has been specially developed for use in electro-plating and anodising plants. **EPC** is not absorbed by plating solutions like ordinary mineral oil based grease can be. This is particularly relevant when used for hard chrome when very costly damage can be caused to the electrolyte. Ordinary greases will also rapidly deteriorate in a plating shop and leave an insulating layer on the contacts, an issue that does not occur when **EPC** is used. Application of **EPC** onto metal interfaces reduces resistance and energy consumption, thereby reducing voltage drop at connections and ensuring that the maximum plating current flows for any applied voltage. The product also inhibits against corrosion, reducing the frequency of cleaning.

READ ENTIRE TECHNICAL BULLETIN BEFORE USING THIS PRODUCT

FEATURES AND BENEFITS

- Improves plating quality by reducing voltage drop; provides constant plating current and density
- Reduces energy consumption; reduces maintenance costs
- Assists with efficient production; stabilizes contact resistance
- Protects and seals bus-bar joints

APPROVALS

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

PRODUCT INFORMATION

For available packaging sizes please visit:

electrolube.com





PHYSICAL PROPERTIES

Category	Results	
Typical Properties		
Color	Red	
Density (g/mL)	1	
Temperature Range (°C)	-40 to 135	
Evaporation Weight Loss % 7 days @ 100 °C % 7 days @ 125 °C	3.12 4.40	
Copper Strip Corrosion (IP154 / ISO 2160)	<u>≤</u> 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 -40 °C	300 330	
Consistency (NLGI)	1	
Fliessdruck (Flow Pressure) (DIN 51805, mbar @ -40 °C)	650	
Oil Bleed / Separation (IP121)	5%	
Plastic Compatibility ABS PC	Test Test	
Thickener	Clay	
UV Trace	No	
Electrical Properties		
Dielectric Constant (1 MHz)	4	
Base Oil Properties		
Base Oil Type	Complex Ester	
Base Oil Viscosity (Kinematic Viscosity (cSt)) 40 °C 100 °C	55 15	



Category	Results
Base Oil Viscosity Index (ASTM D 2270)	190
Pour Point (ASTM D 97 (°C)	-54
Flash Point (COC ASTM D 92 (°C))	241

APPLICATION GUIDELINES

1. Initial Application

Firstly, clean all contacts to remove corrosion – Ultrasolve (ULS) can be used for this purpose. The surfaces should be abraded, and EPC rubbed on until all the tarnish and corrosion have been loosened. The contaminated EPC should be wiped off and followed immediately by a clean application of EPC.

2. Routine Maintenance

Clean the contact surface, connections or busbars with an abrasive pad and wipe off all contamination and EPC. Immediately re-apply EPC. In cases of severe corrosion, or when regular maintenance has not been carried out, it may be necessary to carry out the 'initial application' procedure, as above.

TYPICAL PRODUCT APPLICATION

To prevent corrosion and contamination and improve electrical contact on anode and cathode bars, pick-up shoes, rack contacts, busbar joints etc. It is also formulated to assist in the removal of tarnish and corrosion.

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

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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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