Contact Lubricants Technical Data Sheet



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E3C-CA Electrolytic Cell Connection Compound – Chloro-alkali Grade

E3C-CA has been specially developed for use on connections and switches in electrolytic, electro-plating and anodising plants. Its unique silicone free formulation protects metal interfaces from oxidation and corrosion in harsh chemical environments whilst maintaining a low and consistent contact resistance, thereby preventing build-up of unwanted heat and minimising energy consumption.

- Reduces contact resistance and mV drop at all connections and switches
- Reduces temperature at all contacting surfaces; reduces energy losses given off as heat
- Improves plant reliability and productivity; reduces maintenance costs
- Excellent corrosion protection and oxidation stability across a wide temperature range

Approva	Is RoHS Compliant (2015/86	3/EU): Yes
Typical I	Properties	
	Colour	Cream
	Density (g/ml)	0.85
	Temperature Range (°C)	-50 to +160
	Evaporation Weight Loss (% 7 days @ 100	°C) <1.5%
	Evaporation Weight Loss (% 7 days @ 125	°C) 1.6%
	Copper Strip Corrosion (IP154 / ISO 2160)	≤1b
	Drop Point (IP32 / ISO 2176 (°C))	>200
	Cone Penetration Un-Worked (ASTM D 217	7 @ 20°C) 325
	Cone Penetration Un-worked (ASTM D 217	'@-40°C) 225
	Cone Penetration Worked (ASTM D217, 60	strokes @ 20°C) 330
	Consistency (NLGI)	1
	Bleed / Separation (IP121)	<5%
	Silver Corrosion (DIN 51759, 3hrs @100°C) No change
	Plastics Compatibility - ABS	Test
	Plastics Compatibility - PC	Test
Packing	Order Code Sha	Nf Life Container Dimension

<u>Packing</u>	Order Code	Shelf Life	Container Dimension
10kg Bulk	EE3C-CA10K	36 Months	254mm (Diameter) x 330mm (Height)
35ml Syringe	EE3C-CA35SL	36 Months	

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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.

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Directions for Use

E3C-CA Compound should be applied to contacting surfaces either manually, and preferably with friction, or using a fully automated application process incorporating a follower/pusher plate with the dispensing system.

Typical Product Applications

The use of E3C-CA significantly improves and maintains current flow and is particularly suitable for low voltage/high current circuits (e.g. 5V-24V at 25,000A-250,000A). By stabilising and minimising contact resistance at all connection points, use of this specialist compound provides an even current distribution and exceptionally low mV drop between contacting surfaces. E3C-CA provides superior electrical performance to give optimum electrical process conditions.

Regular application of E3C-CA minimises production downtime required for cleaning contacts and connections by preventing the build-up of tarnish and corrosion on the surfaces, even in harsh conditions such as chlorine and high acidity environments. It has been specifically designed to offer superior performance as a non-melting compound, preventing contamination of the electrolyte. It will therefore remain unaffected by the working environment without evaporating or 'drying out' under normal conditions. E3C-CA has excellent material compatibility however, as in all applications; it is recommended that compatibility tests are carried out on sensitive materials, particularly thermoplastics, prior to large scale application.

E3C-CA Compound prevents corrosion and contamination, and improves electrical contact on anode and cathode bars and rails, V-joints, pick-up shoes, rack contacts, bus-bar joints etc.



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