



**TIM-ELECTRICAL JOINT COMPOUNDS (EJC)** are specially formulated with latest technology to prevent oxide film formation on metal surfaces and prevent corrosion. (EJC) offers superior weathering characteristics over wide temperature ranges, and provides highly conductive tight joints. Proprietary filler particles help in penetrating oxide films and act as electrical bridges between conductor strands, aid in gripping conductor, improve electrical conductivity and enhance integrity of the connection.

### Key Features

- Penetrate & Prevent Oxide films
- Protect against moisture and corrosion.
- Provide “gas-tight” joints with low resistance
- Gritted and Non-gritted Formula
- Improve electrical continuity for grounding
- Excellent lubricant, reduce galling & seizing
- RoHS compliance

### Applications

Surface contamination, especially surface oxide, must be expected on all conductors. These surface oxide films are insulators and must be broken down to achieve the metal-to-metal contact required for efficient electrical connections. Aluminum oxide, in particular, forms very rapidly. Therefore, aluminum conductors must be thoroughly cleaned by use of an emery cloth prior to making the connection. In addition to cleaning, surface should be covered with joint compound to exclude moisture, thus preventing the oxide from reforming.

PROPERTY	EJC 741	EJC 742	EJC 744	EJC 745NS	EJC 745SL
Type	Non-Silicone	Non-Silicone	Non-Silicone	Non-Silicone	Silicone
Color	Gray	Copper	Gray	Gray	Gray
Fillers	Non-Gritted	Non-Grilled	Gritted/Abrasive	Non-Gritted	Non-Gritted
Service Temperature Range °C	-40 to 150	-40 to 120	-40 to 150	-40 to 150	-55 to 200
Thermal Conductivity, W/m <sup>2</sup> K	1.0	0.9	0.5	0.8	1.0



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### Recommendations:

**EJC 741:** Non Silicone compound recommended for **insulated Al/Al & Al/Cu connections, Aluminum conduit threads.**

**EJC 742** Non-gritted electrical joint compound is recommended for all aluminum and copper compression connections.

**EJC 744:** Gritted electrical joint compound is recommended for all aluminum and copper compression connections. It is not recommended as lubricant on threaded fittings.

**EJC 745NS:** Non-gritted Non-Silicone electrical joint compound recommended for No-Drip application for aluminum and copper connectors.

**EJC 745SL:** Non-gritted Silicone electrical joint compound recommended for rigid bus connection, bolted flat-pad connection between aluminum and aluminum and copper applications.

### Availability:

Syringes, Jars, Cartridges, Gallons and Pails.

**Disclaimer:** All data given here is offered as a guide to the use of these materials and not as a guarantee of their performances. The user should evaluate their suitability for own purposes. Properties are typical and should not be used in preparing specifications. Statements are not be construed as recommendations to infringe any patent