

## Description

The Exothermic Welding is a simple, effective, quality welding method, which welds the parts to desired size and type in graphite mould cavity with overheating. Currently, the exothermic welding has replaced mechanical connections widely.

**Exothermic Welding Mold:** The mould is made of quality graphite body to obtain the perfect seal and lasting performance. The life of our mould can be 80-100 joints, which is more lasting than other competitors.

**Exothermic welding powder:** We mix the powder completely with your conductor's material and size with a reasonable ratio, so the joint is more strong and more lasting.

**Exothermic Welding Clamp:** The clamp makes sure the mold is closed during welding. We can provide the scale of the mold, or we can make the clamps according to the customer's demand.

**Welding toolbox:** We offer the full sets of tools to meet your demand, including ignition gun, brush, screwdriver and glove. It is a package box to meet your whole demand.

## Product Parameter

Material of Exothermic Welding Mold	Graphite
Material of Exothermic Welding Powder	Cu, Al, Fe
Material of Exothermic Welding Clamp	Carbon steel
Size	According to customer's requirement
Characters	Easy to use and safe

## The Size OF Exothermic Welding Powder

Product No	Weight
EWM -C90	90g
EWM -C115	115g
EWM -C150	150g
EWM -C200	200g
EWM -C250	250g
EWM -C300	300g

## Product Advantages

- (1). Good current loading ability: The welding point current loading ability is the same as that of the conductor;
- (2). Good mechanical performance: The connection is a molecular connection. It is a permanent connection, no loss or corrosion results in high resistance;
- (3). Stable short-circuit current resistance: The test shows that in the surge of big current in short time, and the conductor melts earlier than the connection point, no damaged by surge current.
- (4). Good resistance to corrosion: The welding joint is covered by copper and is stronger than copper, it provides good resistance to corrosion.

(5). Simple and safe connection: Neither outside power nor facility is required. It take very little time to finish one welding both indoor and outdoor.

(6). Free control the reaction temperature: Different welding powder is provided according to the metal features, so the welding powder can be very solid.

**Welding Property**

Welding Flux is also called aluminium heat welding powder. Use proper exothermic fluxes to make the connection joints more solid and extend the using life.

**Main content and ratio of welding powder:**

Element	Ratio Wt/%
Cu	≥76.0
Al	≤2.0
Fe	≤10.0

**Properties of joint:**

Properties	Technology index
Conductivity	Resistance of conductor (Including joint) should be less than that of same length base metal
Strength	Joint strength should not less than 95% of low limit of raw material's strength (CCS material is regarded as pure copper )
High melting point	≥1 083 °C
Surface	No air hole ,residue and crack
Section quality	The max size anywhither should be higher than 1/3 of the thickness(or 1/4 of diameter) ,but should be less than 3mm

**Resistance of joint:**

Resistance /μΩ	Test location
113	Distance between tested location :15 cm

**Strength of joint:**

Strength Rm/MPa	Remark
340	No crack and base metal off

Store instruction :The flame point of powder is very high ,so pyrophoric powder is must to ignite, the store condition should be dry ,cool ,no shine ,no humidity.If the packing damaged ,please don't use.

