

# TECHNICAL SHEET

Cerium Tungsten Electrodes (Gray)

**BEIDUO**® Alloys

Providing Complete Brazing, Soldering & Welding

No.:000000

## Classification

WC20

AWS classification: EWCe-2

Color sign: Gray

## Chemical Composition:

Tungsten: Balance

Cerium Oxide: 1.8 - 2.2%

## Description and Applications

Cerium tungsten electrode is mainly used to replace thoriated tungsten electrodes, which generally contains 2% cerium oxide. In the case of lower voltage, it is very easy to arc. Compared to pure tungsten electrode, cerium tungsten electrode has lower burn rate and evaporation rate. And these excellent properties will continue to increase depending on the content of cerium oxide. At low voltage, the life time is much longer. This electrode has no radiation, and has a lower melting rate with long life time. In addition, it also has some very outstanding chemical properties: small cathode spots, pressure drop, no burning.

Because of the excellent properties of cerium tungsten electrode, it is mainly used in carbon steel, stainless steel, silicon, copper, bronze and other materials welding. Welded pipes often adopt cerium tungsten electrodes. All in all, the type of tungsten electrode is mainly used in DC welding. Since AC welding, cerium tungsten electrodes will be very prone to splitting

## Availability

Diameter: 1.0-12mm

Length: 50mm, 75mm, 150mm, 175mm and any length requested from customer.

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