

### **Main performance:**

- 1) the hardness > 83HRB
- 2) Conductivity > 85% IACS
- 3) Softening temperature: 900°C;
- 4) Dispersion hardening CuAl<sub>2</sub>O<sub>3</sub> composite material, this material has high strength, high hardness, high conductivity and high softening temperature properties.
- 5) In the United States, Japan and other countries have been widely used in large microwave tube structure and conductive material, selector switch, with silver contacts and spot-welding electrodes, the production of materials through Cu-Al alloy oxidation - isostatic pressing, pressing embryo - sintering - hot extrusion - drawing - processing molding process production. It has good thermal stability, good plasticity and machining performance.
- 6) Resistance welding electrode galvanized steel superior corrosion resistance in the field of more and more widely used, but it also brings new topics for resistance welding technology, how to avoid in the process of welding due to the melting of the zinc layer and solder joint yellow, virtual welding, and zinc electrode stick and led to a decline in the quality of the product, the problem of low efficiency has become increasingly urgent, Dispersion aluminum-copper alloy is undoubtedly the most ideal material; For welding plated steel plate, nickel plate, etc, there's superior resistance to welding and burning of the arc resistance, thus improve the life of the electrode and reducing electrode dressing frequency, disrupted welding and virtual welding may be reduced to a minimum, especially suitable for mobile phone battery production welding of pure nickel belt, permeability of nickel sheet steel, etc.
- 7) Lead frame materials and electronic packaging materials with the development and progress of the electronic industry, large-scale integrated circuit and other electronic components of the lead material requirements are becoming higher and higher, the high temperature and rigidity of the dispersion strengthened copper alloy, will gradually replace the traditional iron and nickel alloy materials.

**Application:** it is suitable for spot welding of nickel strip, nickel-permeated steel sheet, coated steel strip and other materials in battery production. In the production of nickel metal hydride battery, nickel cadmium battery, polymer battery, lithium battery, such as spot-welding connecting piece, cell, lead piece.

**Main welding advantages:**

1. Avoid the phenomenon of sticking electrode.
2. The welding part is not yellow, and the welding spot is beautiful.
3. Avoid virtual welding.
4. Eliminate the phenomenon of welding sparks.
5. Excellent electrical conductivity and thermal conductivity.
6. Good high temperature performance.
7. Meet SGS environmental protection standards and MSDS standards.



