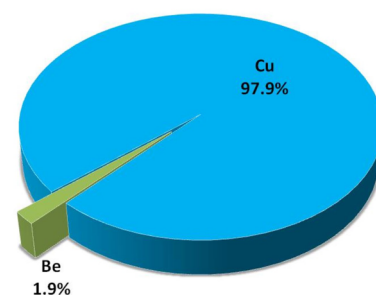




Alloy Copper Beryllium NANOPARTICLES

Copper Beryllium Alloy Nanopowder



Composition Chart

CuBe₂

Stock No:
NS6130-07-735

CAS	:	7440-50-8 / 7440-41-7
Purity	:	99.9%
APS	:	80-100nm
Color	:	Black
Form	:	Powder

Technical Specification

Molecular Formula	:	CuBe ₂
Relative Density	:	8.26g/cm ³
Melting Point	:	865-980°C

Chemical Composition

Assay	:	99.9%
Cu	:	98%
Be	:	2%

The addition of beryllium in copper alloy materials gives a considerable intensity in strength without resulting in brittle behavior. Because of these enhanced properties, beryllium alloys are utilized widely in the aviation industries in components which require high strength and high tolerance to wear. It is the strongest amongst the copper alloys. These alloys are commonly used at cryogenic temperatures where, like other copper alloys, they do not become brittle.

These can be machined relatively easily, and are readily joined by soft soldering or brazing. Handling and most machining operations concerning beryllium-copper alloys are considered non-hazardous. In the aviation industry copper beryllium has been utilized in different components because of its strength and tolerance to wear and its electrical conductivity. It is a good resistance to corrosion.

Application:

- ✓ In aviation industry
- ✓ Relay parts
- ✓ High flux electromagnets
- ✓ Welding equipment
- ✓ Switch parts
- ✓ Lead frames
- ✓ Terminals
- ✓ Connectors in the electronic industries
- ✓ Contact springs in the electromechanical, appliance and automotive industries
- ✓ Electromagnetic shielding

ISO 9001:2015
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