



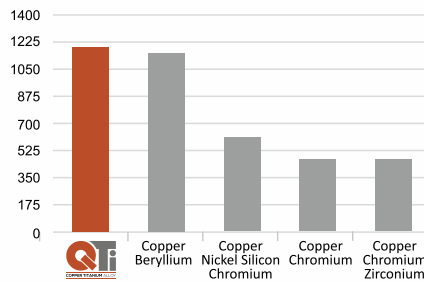
RESISTANCE WELDING PRODUCTS

Copper Titanium alloys are new range of copper alloys which are perfect substitute to Copper Beryllium alloys and other Copper alloys.

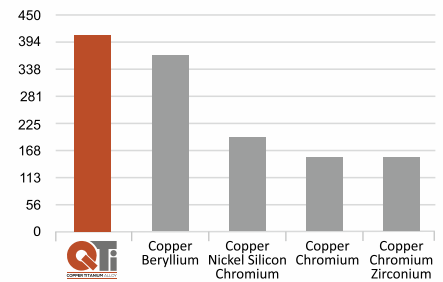
They offer combination of Good Strength, Hardness and Electrical Conductivity with increase in electrode life and productivity.

QTI Alloys offer advantages for Resistance Welding Application where it provides good electrical conductivity, high strength at affordable cost. In applications of high current or weld force QTI alloys provide performance.

TENSILE STRENGTH (MPa)



HARDNESS (BHN)

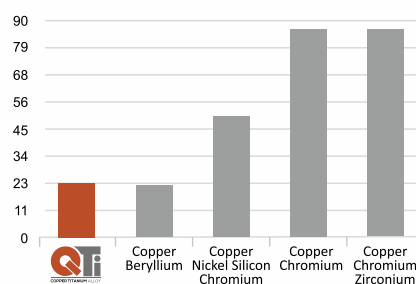


- | QTI Alloys have a clear advantage in terms of strength and hardness over other alloys being used in resistance welding tools.
- | CuCr/CuCrZr used for Gun arms/shanks as a lesser expensive alternative to CuBe. But it comes with a disadvantage of frequent bending and distortion.

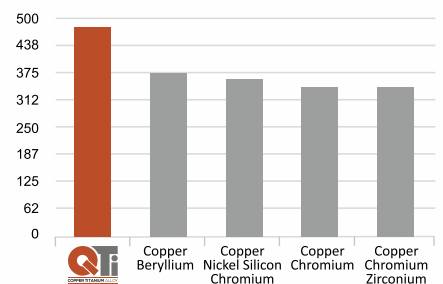
APPLICATIONS

- | Spot Welding Electrodes |
- | Caps & Shanks |
- | Gun Arms and Holders |
- | Projection Welding Electrodes |
- | Seam Welding Wheels |
- | Electrode Holders |
- | Inserts for Fixtures |

ELECTRICAL CONDUCTIVITY (% IACS)



ANNEALING TEMPERATURE (°C)



- | QTI alloys have higher annealing temperature, it provides advantage for welding thicker, dis-similar materials and High conductive materials.

WARNING!

INHALING BERYLLIUM DUST OR FUMES MAY CAUSE SERIOUS, CHRONIC LUNG DISEASE AMONG EXPOSED WORKERS. THIS LUNG DISEASE CAN BE FATAL.

DISADVANTAGES : Copper Beryllium (CuBe)

- Needs precautions while machining and handling
- Creates an inhalation hazards known as Chronic Beryllium Disease (CBD)
- CBD may occur among people who are exposed to the dust or fumes from beryllium metal, metal oxides, alloys, ceramics or salts
- Latest research shows skin can be a route to CBD
- Expensive material
- High cost of compliance to safety standards

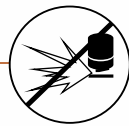


COPPER TITANIUM

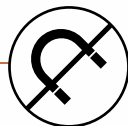
TECHNOLOGY DEVELOPED BY DRDO



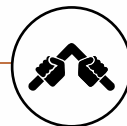
Beryllium Free



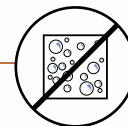
Non-Sparking



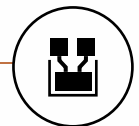
Non Magnetic



High Strength



Corrosion Resistant



Good Conductivity

ABOUT US

Pahwa MetalTech Pvt. Ltd. was incorporated in 2014 by experienced techno-managerial entrepreneurs with over 40 years of experience in engineering with a vision to become a leader in manufacturing high strength copper alloys.

Pahwa MetalTech has obtained an exclusive licence from DRDO (Defence Research & Development Organization) of a technology to manufacture high strength Copper Titanium alloys.

OTHER PRODUCTS



Non-Sparking Hand Tools



Resistance Welding Products



MIG Welding Contact Tips



Plunger Tips



Dies and Moulds



Valve Seats



Electrical Contacts



Special Applications



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