

# Nanocrystalline and Amorphous

## Amorphous Alloy Brazing Materials

### Material characteristics and use:

Amorphous alloy brazing material is a kind of nes welding material made of quenching coagulation of liquid metal. In comparison with crystallite brazing material, amorphous brazing material boasts pure material quality, even texture, remarkable improvement of brazing quality and the like. It not only can be used to replace crystallite brazing material effectively but can solve some problems difficult for crystallite brazing material to solve.

### Main brand and performance:

Brand	Composition	Brazing Temperature (°C)	Brazing Temperature (°C)	Brazing Splice Shear Strength (°C)	Working Temperature (°C)	Density) g/cm)	Main Use
TIE-C-AN140	Ni based	960~990	1040~1100	137~156	≤850	8.7	Weld high temperature alloy and stainless steel, replace Nibased powder welding
TIE-C-AN141	Cu based	560~640	700~750	98~137		7.6	Welding between copper andcopper, copper and silver cadmium, copper and silver, replace silver based welding material.
TIE-C-AN142	Cu based	830~870	900~920	205~402		8.6	Welding between steel and steel,steel and copper, replace silverbased welding material
TIE-C-AN143	Cu based	560~640	700~750	98~137			Welding between copper and copper, copper and silver, replace silver welding disc. Glld impact flesibility due to 10%content of silver.

**Mode of material supply:**

Quenching thin strip, width < 200mm, thickness 0.33 ~ 0.05mm

Amorphous brazing thin strip of other brand or special compositions may be supplied besides the foregoing brands according to the customers' demands. Customers' materials for processing shall be acceptable and technical service shall be offered.