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Item # Brazelt 773, Copper & Copper Brazing Alloys

Copper brazing alloy used mainly to join carbide to steel. Offers high strength and economy compared to silver brazing alloys.

Brazelt #773 is a high temperature, high strength corrosion resistant copper brazing alloy that is primarily used for the joining of steel to steel or carbide to steel. Due to the high flow point, we recommend the use of Black Flux. Because of the zinc content, it is recommended that the heat cycle is kept to a minimum to prevent any vaporizing of the zinc.

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Nominal Composition

Copper (Cu)	48%
Silicon (Si)	0.15
Nickel (Ni)	10%
Zinc (Zn)	Balance

Specifications

Material	Nickel-Silver
Melting Pt.	1690 °F 921 °C
Flow Pt.	1715 °F 935 °C
MBT	1800
AWS A5.8	RBCuZn-D
AWS	RBCuZn-D
MIL	R-19631
Federal Specification	QQ-B-650
Preform Options	Brazing Discs Brazing Rings Brazing Spheres Custom Design Cutoffs
Resale Options	Brazing Paste Brazing Rod Brazing wire Spooled Brazing Material
Pricing & availability	Our material sources offer us the best combination of quality, price and service. This translates into high performance brazing alloys for the customer delivered on time and at highly competitive prices.
Approx. Wire Length (BCuP/lb.) (BAg/Tr.oz)	1097 in; 0.062 diameter 4475 in; 0.031 diameter 487 in; 0.093 diameter

Physical Constants

Solidus	1690 °F 921 °C
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Liquidus	1715 °F 935 °C
Recommended Braze Temperature	1740 °F
Specific Gravity	8.47
Density	0.296 lb./cu.in
Electrical Conductivity	5.5 % IACS
Electrical Resistivity	31.4 Micro ohm-cm
Color	Light Yellow

Applications

A high temperature, high strength copper brazing alloy well suited for carbide to steel applications.