Silver Braze 30 Technical Data

Uses

Silver Braze 30 is a general purpose, intermediate temperature brazing alloy for use on copper, brass, nickel-silver, bronze, steel and other nonferrous alloys melting above 1450F (765C). Uses include the brazing of nickel-silver hollow knife handles and electrical equipment. It is particularly adaptable to metal bath dip brazing of fine wires for radio, small transformer and electronics assembles because its flow point matches the fluid temperature of borax. Borax is used as a metal bath flux cover because it is less corrosive to ceramic pot linings.

Brazing Characteristics

Silver Braze 30 is an intermediate temperature silver brazing alloy with a fairly long (160F/70C) melting range. This long melting range is helpful when wide gap joints are brazed and is useful in producing large joint fillets to reduce the notch effect on stressed assembles. Where the higher brazing temperature and characteristics of this alloy are permissible, the lower silver content affords a saving. Flus should be used with this alloy.

Properties of Brazed Joints

The properties of a brazed joint are dependent upon the base metal, joint design, metallurgical interaction between the base metal and filler metal.

Specifications

Silver Braze 30 conforms to American Welding Society (AWS) A5.8/A5.8M BAg-20

Available Forms

Wire, strip, engineered preforms, specialty preforms per customer specification, powder and paste.

Compare With

AWS: BAg-20

EN: AG 204

Lucas: Silvaloy 300

PI: Silver Braze 30

UNS: P07301

Specifications

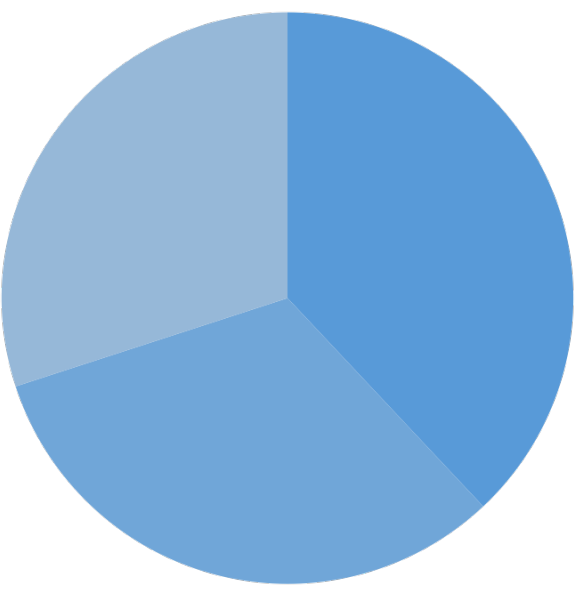
Brazing Temperature Range High: 1510 F / 821 C

Brazing Temperature Range Low: 1460 F / 793 C

Liquidus: 1410 F / 766 C

Solidus: 1250 F / 677 C

Composition



Cu: 38%

Zn: 32%

Ag: 30%