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Item # ChannelFlux Silver® A-38T

A general purpose brazing alloy providing good flow and ductility. Forms good fillets and is an economical alternative to other cadmium-free alloys. ChannelFlux® Silver A-38T is used for brazing ferrous metals, copper, copper alloys, nickel, nickel alloys and combinations of these metals. The tin content provides good wetting on many difficult to wet metals such as stainless steel and tungsten carbide. The greatest use of this alloy is during furnace brazing, although it is also suitable for other brazing procedures.

Specifications

Minimum Order	1
Package Type	Each
Units Per Package	1
AWS A5.8	BAG-34
Silver (Ag)	38.0 ± 1.0%
Copper (Cu)	32.0 ± 1.0%
Zinc (Zn)	28.0 ± 2.0 %
Tin (Sn)	2
Total Other Elements	0.15% Max.
Melting Pt.	649 °C 1200 °F
Flow Pt.	721 °C 1330 °F
MBT	1550
Color	Pale Yellow
Solidus	649 °C 1200 °F
Liquidus	721 °C 1330 °F
Brazing Range	721 to 843 °C 1330 to 1550 °F
Specific Gravity	9.05
Density	4.77 T.oz./cu.in.
Electrical Conductivity	18 % IACS
Electrical Resistivity	9.50 Micro ohm-cm
Properties of Brazed Joints	Generally, the joint strength using ChannelFlux Silver A-38T will surpass the strengths of the base metals. Strength is a function of the base metals being joined, type of joint, design of joint, joint clearances and brazing procedures. The recommended maximum operating temperature for ChannelFlux Silver A-38T is up to 400 °F in continuous service and up to 600 °F in intermittent service. Where improved corrosion resistance is needed, ChannelFlux Silver A-50N and ChannelFlux Silver A-40N2 are recommended over silver base filler metals not containing nickel.
Applications	Typical applications are the brazing of ferrous, nonferrous and dissimilar metals and alloys with close joint clearances. Similar melt temperatures to cadmium alloys Brazelt 30 and Brazelt 35. Suitable for ferrous and non ferrous.
Safety Information	It is essential that adequate ventilation be provided so that personnel will not inhale gases and fumes while brazing. The operation and maintenance of brazing equipment or facility should conform to the provisions of American National Standard (ANSI) Z49.1, "Safety in Welding and Cutting". For more complete information refer to the Material Safety Data Sheet for Brazeit A-38T.
Available Forms	Standard forms of ChannelFlux Silver A38T are brazing wire, brazing rod, and brazing preforms.

**Approx. Wire Length (BCuP/lb.)
(BAg/Tr.oz)**

275 in; 0.031 diameter
30 in; 0.093 diameter
65 in; 0.062 diameter