

Bellman-Melcor LLC
 7575 West 183rd Street
 Tinley Park, Illinois 60477
Phone: 1-800-367-6024 • **Fax:** 1.888.BRAZE-IT-272.9348
Email: sales@bellmanmelcor.com • **Website:** www.bellmanmelcor.com



Item # ChannelFlux Silver® A-30

ChannelFlux® Silver A-30 does not contain cadmium and is often used as an alternate to cadmium containing alloys when the brazed assembly comes in contact with food or dairy products. Its slightly higher melt temperature provides improved mechanical strengths when exposed to elevated temperatures. It is used extensively in joining of copper, brass, nickel-silvers, and ferrous alloys.

Specifications

Minimum Order	1
Package Type	coil, spool, rod
Units Per Package	1
AWS A5.8	BAG-20
Silver (Ag)	30.0±1.0%
Copper (Cu)	38.0±1.0%
Zinc (Zn)	32.0±2.0%
Total Other Elements	0.15% Max.
Melting Pt.	677 °C 1250 °F
Flow Pt.	766 °C 1410 °F
MBT	1600
Color	Light Yellow
Solidus	675 °C 1250 °F
Liquidus	765 °C 1410 °F
Brazing Range	765 to 856 °C 1410 to 1575 °F
Specific Gravity	8.85
Density	4.66 T.oz./cu.in.
Electrical Conductivity	24.4 % IACS
Properties of Brazed Joints	Generally, the joint strength using ChannelFlux Silver A-30 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-30 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 joining of ferrous, nonferrous and dissimilar metals and alloys with close joint clearances. Good for refrigeration assemblies where higher temperatures can be employed. Copper, nickel-silvers, and other 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 America National Standard ANSI/ASC Z49.1, "Safety in Welding, Cutting and Allied Processing". For more complete information, refer to the Material Safety Data Sheet for Brazeit A-30.
Available Forms	Standard forms of ChannelFlux Silver A-30 are wire, rod, and brazing preforms.
Approx. Wire Length (BCuP/lb.) (BAg/Tr.oz)	280 in; 0.031 diameter 31 in; 0.093 diameter 70 in; 0.062 diameter