

CHANNELFLUX®

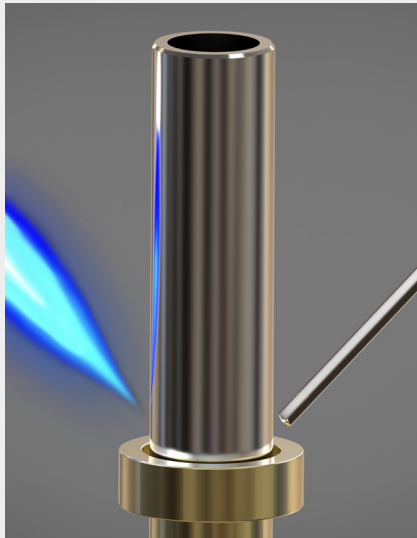
U.S. Patent #7,858,204

Silver ChannelFlux® Alloys



ChannelFlux® Advantages

- Integrated Flux System - Alloy and non-corrosive flux in a flexible and durable matrix.
- Improved Performance - Flux activates in advance of alloy. No overflow of material.
- Superior Design - Flux in direct contact with base metals. No hidden flux voids.
- Less Contamination - No powder to contaminate equipment or the working air environment.
- Patented Technology - Offers unlimited options in alloys and flux systems.



Silver ChannelFlux® Alloy Options

ChannelFlux® is Bellman-Melcor's (A Prince & Izant Company) patented family of brazing alloys with flux integrated into the material.

Product	AWS	Composition	Temperature	RMBT	Application
#A30	BAg-20	30% Silver 38% Copper 32% Zinc	Melt: 1250°F (677°C) Flow: 1410°F (766°C)	1550°F	Good for refrigeration assemblies where higher temperature can be tolerated. Good on copper and other non-ferrous alloys.
#A38T	BAg-34	38% Silver 32% Copper 28% Zinc 2% Tin	Melt: 1200°F (649°C) Flow: 1330°F (721°C)	1500°F	Versatile general purpose alloy combining low cost in a low melting point alloy.
#A50N	BAg-24	50% Silver 20% Copper 28% Zinc 2% Nickel	Melt: 1220°F (660°C) Flow: 1305°F (705°C)	1450°F	Excellent general purpose alloy. Effective on stainless steel and carbide. Corrosion resistant.
#A56T	BAg-7	56% Silver 22% Copper 17% Zinc 5% Tin	Melt: 1145°F (618°C) Flow: 1205°F (652°C)	1400°F	Very fluid, general purpose alloy. Low flow point. Historic replacement for cadmium-containing alloys.

CHANNELFLUX® WIRE REFERENCE CHART

Wire Size	Solid Wire Equivalent
.031 x .066	.037
.034 x .068	.040
.036 x .087	.046
.050	.061

CHANNELFLUX® AVAILABLE FORMS

Forms
Rings
Slugs
Specialty Shapes
Cut to Length Rod
Level Layer Wound Spools

BELLMAN-MELCOR (P&I) KEY DIFFERENTIATORS

Technical Support

Engineering and technical support are critical components to building trustworthy and highly collaborative partnerships with our customers. Our Engineering and Technical departments strive to provide the best support in the metal joining industry.

Our Technical Support services include joint design assistance, preform design, alloy selection, heat source considerations (torch, vacuum, atmosphere, induction, etc.), and more.

Unsurpassed Inventory

We maintain an extensive inventory of brazing and soldering alloys for metal joining applications.

Alloys are available in various forms and sizes including but not limited to wire, rod, strip/ribbon, rings, and custom preforms. Most alloys are available for same day shipping.

Bellman-Melcor has specialized in aluminum, copper, phosphor copper, silver, and soft solder alloys as well as flux and channel flux braze products since 1962.

Prince & Izant Company provides precious metal and brazing alloy solutions to global customers, helping them create diverse products used throughout the world. P&I is committed to investing in the equipment, talent, and other resources necessary to provide customers with world-class experiences.



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