

TOOLING ADVANCED BRAZING SOLUTIONS

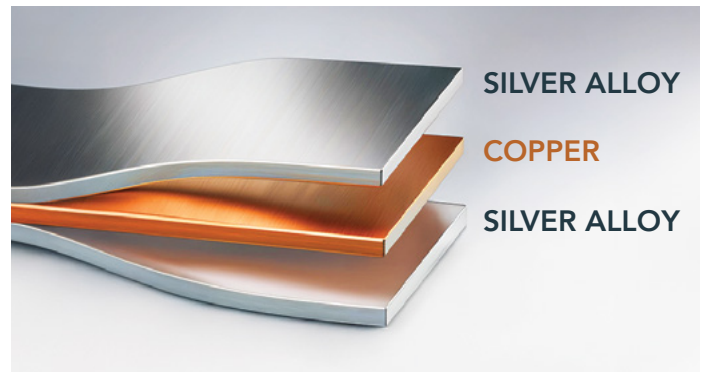
A world leader in the production
of brazing alloys for Tungsten Carbides



Pietro Galliani Brazing is globally recognized for its excellence in producing brazing alloys. We offer innovative solutions for hard metal brazing, tailoring our alloys to meet the specific needs of cutting tools for highly specialized sectors such as mining and the processing of stone and wood.

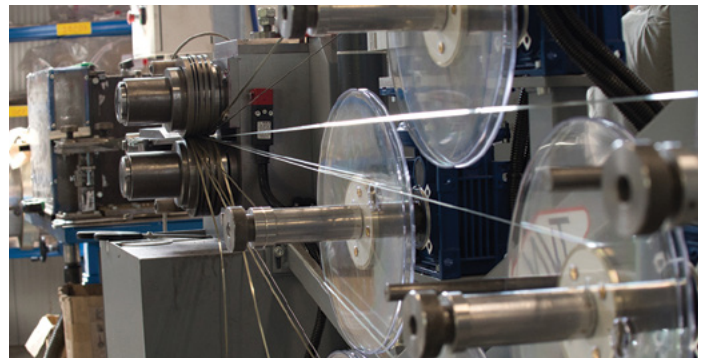
TRIFOIL Tri-Tech

Ideal for brazing saw teeth and other cutting tool components, this innovative laminate composed of two layers of silver alloys and a central layer of copper specifically design for brazing tungsten carbides to steel in cutting tools, as it compensates for internal stresses caused by the different thermal coefficient of expansion during cooling.



Silver Base Alloys

Perfect for low-temperature brazing, these alloys are ideal for joining a wide range of metals, including iron, carbon steel, and stainless steel, ensuring high-quality joints with excellent pressure and vibration resistance.



Main Applications

Our alloys are used in a variety of applications, especially in the cutting tool sector:






Mining Tools
Drill tools



Cutting Blades
For stone and wood



Band Saws
Gang saw blades

Alloy	Ag %	Cu %	Zn %	Sn %	Others %	Melting range [°C]	Operating temp [°C]	AWS A5.8	DIN 8513	EN 17672
 GalFlo 38 Ni Mn	38	26	25.3	-	Mn 7,2 Ni 3,5	680 - 700	700	-	-	-
GalFlo 40 Ni	40	30	28	-	Ni 2	670 - 780	780	BAG-4	-	Ag 440
GalFlo 40 Sn	40	30	28	2	-	650 - 710	690	BAG-28	L-Ag40Sn	Ag 140
GalFlo 44	44	30	26	-	-	675 - 735	730	-	L-Ag44	Ag 244
GalFlo 45	45	30	25	-	-	660 - 740	730	BAG-5	-	Ag 245
GalFlo 45 Sn	45	27	25.5	2.5	-	640 - 680	670	available in BAG-36	available in L-Ag45Sn	Ag 145
GalFlo 49 Ni Mn	49	16	23	-	Mn 7,5 Ni 4,5	670 - 690	690	BAG-22	L-Ag49	Ag 449
 GalFlo 49 Ni Mn L	49	27.5	20.5	-	Mn 2,5 Ni 0,5	670 - 690	690	-	-	-
 GalFlo 50 Ni	50	20	28	-	Ni 2	660 - 705	690	BAG-24	-	Ag 450
GalFlo 55 Sn	55	21	22	2	-	630 - 660	660	-	L-Ag55Sn *	Ag 155
GalFlo 56 Sn	56	22	17	5	-	620 - 655	650	BAG-7	L-Ag55Sn *	Ag 156

Available format: Foil, Wire, Rod, Flux Coated Rod and Preforms  Available as TRIFOIL

Flux	Melting range [°C]	AWS 5.31	EN ISO 18496	Description
GalFlux UB PS/AF	550 - 850	FB3-C	FH 12	Flux for brazing high temperature tools – brown paste
CleanTech X85 PS/AF	550 - 850	FB3-C	FH 12	Non-toxic flux for brazing tools – for vending machines – brown paste
GalFlux DF300	550 - 850	FB3-C	FH 12	Dosable flux for automatic high-temp tool brazing machines – brown paste

Why choosing our products

- ✓ Mechanical excellence due to alloys enriched with Nickel and Manganese
- ✓ Superior capillary penetration ability
- ✓ A wide range of alloys available
- ✓ Optimized solutions for each customer's manufacturing process
- ✓ Specialized technical support



Why Choose Pietro Galliani Brazing?

With over 50 years of experience, Pietro Galliani Brazing stands out for its innovative approach and ability to provide customized solutions that enhance the performance of cutting tools, maximizing efficiency and durability.

CONTACT US TO LEARN MORE

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