

“With decades of experience, coupled with a highly skilled and knowledgeable workforce, Linbrazze satisfies all its global customers, providing them innovative, tailor-made and technical advanced solutions.”

## Brazing Filler Metals

### Jump into the deep of the brazing

Our brazing product range is one of the broadest available and unique brazing solutions.



Save money and raise up your productivity with our brazing filler metal alloys.



AUTOMOTIVE



AEROSPACE



MEDICAL



HEAVY EQUIPMENT



AGRICULTURE



ENERGY



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## Brazing Filler Metal Alloys

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\*The cadmium bearing range of silver solders are not available for sale within the EU due to European directive from Commission Regulation (EU) No 494/2011.



# Company Profile

LINBRAZE is an Italian leading manufacturer of metal powders, granules and brazing alloys since 1987. As a leading provider of brazing filler metals for technologically advanced industries, it is specialized in metal atomization and post atomization and in the development and production of innovative materials for industrial and technical applications for Automotive industry - such powertrain torque converters, EGR-cooler systems and High-pressure rail for common-rail systems. HVAC&R industry- such Heating, Ventilation, Air-Condition and Refrigeration. Tooling industry - such cutting tools. The expertise of this brand's application engineers has been formulated over many years of experience from countless application cases.



*LINBRAZE* branch fully dedicated to the production of brazing alloys, applying the latest innovative technologies to help our customers to solve global challenges. Our valuable, innovative and sustainable solutions allow them to improve productivity, reduce costs and mitigate risks.



*LINBRAZE*, immersed in the green of the Sicilian hills, takes seriously the management of the environment and the social responsibility by engaging conscientiously to develop renewable products, through innovation and sustainable improvement of production processes.





# Company's purpose

## Vision

To listen, and meet the needs of our customers, driving them to the excellence as market leader, helping them sell better. Bringing every day in their company the security of a advanced product and the joy of receiving tailor-made solutions, simple and innovative, with the use of professional competencies certified and diversified by offering a constant support and a efficient service.

## Technological Innovation

*LINBRAZE* has a team of skilled technicians for the development of new products and technologies, capable of providing a fair level of technical support at zero cost. The continuous investment in technological innovation, the thirty years of experience and a high degree of specialization of the company's technical resources are our strengths to create and maintain competitive standards of quality and of efficiency that make us unique in the market of pastes and of metal powders.

## Top Quality

*LINBRAZE* continues to offer higher quality, a wider choice of products, the highest performance, added value services, technological superiority and an excellent relationship between supply and price. Within our manufacturing and before shipment to the customer, raw materials, semi-finished and finished products are tested through different levels of analysis and quality testing. Observing and complying with the requirements of the customer is the key part of *LINBRAZE* trade policy, helping to avoid potential increases in costs and the onset of inconvenience is our daily concern. The *LINBRAZE* production provides internal quality standards that far exceed international regulations ISO, AWS, EN.

## Mission

Surrounded by the environmental, cultural and historical beauty of Sicily, MEPOSO is deeply committed to sustainable development and respect for the environment.

We're dedicated to the creation of sustainable technologies and products, shaped around our customers' requests. The path to a sustainable future brings several challenges which have to be faced. Our aim is to produce in a socially and environmentally responsible way, trying to make the world cleaner and healthier each and every day.

Sustainability is a fundamental aspect of Linbraz strategy and governance. It is at the heart of our brand and company values.





# Brazing filler metal alloys

**LINBRAZE** offer one of the most extensive inventories of alloys and forms in the industry, including over 2,000 stockdies and every day continues to create new solutions by focusing on the distinctive features of the Linbraze product, offering higher quality, a higher performance, added value services, technological superiority and an excellent relationship between supply and price.

Our product range includes powders, pastes, coated-rods, preformed, rings, wire and fluxes. Many products are tailor-made for the customer or based on the application requirements, therefore are not in this catalog.

For more details about our products please contact us directly or contact **LINBRAZE's**





**CERTIFICAT**  
N. IT18 – 27705B

This is to certify that the Environmental  
**LINBRAZE S.r.l.**  
Contrada Torre Chimera  
93019 Sommatino (CL)

Has been independently assessed and is compliant with the requirements of:  
**EN ISO 14001:2015**

for the following scope of activities:  
**Production of metal powders and brazepaste alloys**

IAF 17  
For timely and up-to-date information on any changes to this certificate, please contact the number +39 02 93019100 or visit the website [www.axe-register.com](http://www.axe-register.com)  
The validity of this certificate is subject to annual audits of the organization's management system every three years

Date of initial registration: 05/11/2018  
Date of this certificate: 05/11/2018  
Certificate expiry: 04/11/2021

  
CS 007:20.02.18  
Signatory of EA, Mutual Recognition Agreements

**AXE REGISTER**  
Via Cristoforo Colombo, 2  
00187 Roma (RM) - Italy



**CERTIFICAT**  
N. IT18 – 27705C

This is to certify that the Occupational Health and Safety  
**LINBRAZE S.r.l.**  
Contrada Torre Chimera  
93019 Sommatino (CL)

Has been independently assessed and is compliant with the requirements of:  
**OHSAS 18001:2007**

for the following scope of activities:  
**Production of metal powders and brazepaste alloys**

IAF 17  
For timely and up-to-date information on any changes to this certificate, please contact the number +39 02 93019100 or visit the website [www.axe-register.com](http://www.axe-register.com)  
The validity of this certificate is subject to annual audits of the organization's management system every three years

Date of initial registration: 05/11/2018  
Date of this certificate: 05/11/2018  
Certificate expiry: 11/03/2021

  
CS 007:20.02.18  
Signatory of EA, Mutual Recognition Agreements

**AXE REGISTER**  
Via Cristoforo Colombo, 2  
00187 Roma (RM) - Italy



**CERTIFICAT**  
N. IT18 – 27706X

This is to certify that the Quality Management System  
Automotive Industry of:  
**LINBRAZE S.r.l.**  
Contrada Torre Chimera  
93019 Sommatino (CL)

Has been independently assessed and is compliant with the requirements of:  
**IATF 16949:2016**

for the following scope of activities:  
**Production of metal powders and brazepaste alloys**

EA 17  
For timely and up-to-date information on any changes to this certificate, please contact the number +39 02 93019100 or visit the website [www.axe-register.com](http://www.axe-register.com)  
The validity of this certificate is subject to annual audits of the organization's management system every three years

Date of initial registration: 29/10/2018  
Date of this certificate: 29/10/2018  
Certificate expiry: 28/10/2021

**AXE REGISTER**  
Via Cristoforo Colombo, 2  
00187 Roma (RM) - Italy



**Certificate of Registration**

This is to certify that the  
Quality Management System  
of  
**LINBRAZE S.r.l.**  
Contrada Torre Chimera  
93019 Sommatino (CL)  
ITALY

Has been independently assessed and is  
compliant with the requirements of:  
**EN ISO 9001:2015**

For the following scope of activities:  
Progettazione e produzione di polveri metalliche e di leghe in pasta per brasatura e  
saldobrasatura.  
**Design and production of metal powders and brazepaste alloys.**

Certificate Number: 07337Q

Date of initial registration: 21<sup>st</sup> December 2007  
Date of this certificate: 23<sup>rd</sup> January 2018  
Certificate expiry (subject to the company  
maintaining its system to the required standard): 20<sup>th</sup> December 2019

EA17  
  
Authorised Signatory

This certificate is the property of ACM Limited and shall be returned immediately on request.  
ACM Limited, Unit 2, Merco Court, Meridian Business Park, Leicester, LE19 1W  
+44 (0) 145 504 6262 [info@acmcert.com](mailto:info@acmcert.com)

# Silver Brazing Alloys

## Cadmium-free silver alloys

LIN-Alloy	Composition in %						Melting Range °C	Standard		
	Ag	Cu	Zn	Sn	Si	Ni		ISO 17672	EN 1044	AWS A5.8
TO 125	25	40	33	2			680 - 760	Ag 125	AG 108	BAG-37
TO 130	30	36	32	2			665 - 755	Ag 130	AG 107	
TO 134	34	36	27,5	2,5			630 - 730	Ag 134	AG 106	
TO 138	38	32	28	2			650 - 720	Ag 138		BAG-34
TO 140	40	30	28	2			650 - 710	Ag 140	AG 105	BAG-28
TO 145	45	27	25,5	2,5			640 - 680	Ag 145	AG 104	BAG-36
TO 155	55	21	22	2			630 - 660	Ag 155	AG 103	
TO 156	56	22	17	5			620 - 655	Ag 156	AG 102	BAG-7
TO 160	60	30		10			600 - 730	Ag 160	AG 402	BAG-18
TO 267	67	14		19			700 - 725			
TO 205	5	55	39,8		0,2		820 - 870	Ag 205	AG 208	
TO 212	12	48	39,8		0,2		800 - 830	Ag 212	AG 207	
TO 225	25	40	35				700 - 790	Ag 225	AG 205	
TO 230	30	38	32				680 - 765	Ag 230	AG 204	BAG-20
TO 235	35	32	33				685 - 755	Ag 235		BAG-35
TO 244	44	30	26				675 - 735	Ag 244	AG 203	
TO 245	45	30	25				665 - 745	Ag 245		BAG-5
TO 250	50	34	16				690 - 775	Ag 250		BAG-6
TO 260	60	26	14				695 - 730		AG 202	
TO 263	63	24	13				690 - 730			
TO 265	65	20	15				670 - 720	Ag 265		BAG-9
TO 270	70	20	10				690 - 740	Ag 270		BAG-10
TO 272	72	28					780	Ag 272	AG 401	BAG-8
RASTAR 80	10	80		10			700 - 810			
RASTAR 45	10	45		45			610 - 720			
RASTAR 65	10	65		25			650 - 710			
RASTAR 30	30	65		5			730 - 850			

### Characteristics / Applications:

Silver alloys cadmium free. These alloys are low-temperature, free-flowing filler metals for joining similar and dissimilar metals. The above alloys produce strong and ductile joints, with high safety because they are cadmium-free. When compared with the Cadmium bearing range this family of alloys generally has a slightly wider melting range. This affords greater control and produces excellent gap filling qualities. For brazing with alloyed and unalloyed steel, nickel and nickel alloys, malleable cast iron, copper and copper alloys. Joint-brazing at working temperatures of max. 200°C without loss in strength. The above list is a standard range of our regular production, for any special request please do not hesitate to contact us directly or through our consultants.

**Heat sources:** acetylene torch, induction and resistance heating

**Braze family of alloys is available in:** wire, powder, paste, preforms, strip, ring and rods bare and flux coated

# Silver Brazing Alloys

## Silver brazing alloys for tungsten carbide

LIN-Alloy	Composition in %					Melting Range °C	Standard		
	Ag	Cu	Zn	Ni	Other		ISO 17672	EN 1044	AWS A5.8
TO 425	25	38	33	2	Mn 2	705 - 800	Ag 425		BAG-26
TO 427	27	38	20	5,5	Mn 9,5	680 - 830	Ag 427	AG 503	
TO 440	40	30	28	2		670 - 780	Ag 440		BAG-4
TO 449	49	16	23	4,5	Mn7,5	680 - 705	Ag 449	AG 502	BAG-22
TO 450	50	20	28	2		650 - 710	Ag 450		BAG-24
TO 454	54	40	5	1		720 - 855	Ag 454		BAG-13
TO 456	56	42		2		770 - 895	Ag 456		BAG-13a
TO 556	56	27		2,5	In 14,5	600 - 710		AG 403	
TO 564	64	26		2	Mn 2 In 6	730 - 780			
TO 463	63	28,5		2,5	Sn 6	690 - 800	Ag 463		BAG-21
TO 485	85				Mn 15	960 - 970	Ag 485	AG 501	BAG-23
TO 760	60	24			In 14 Ti 2	605 - 715			
TO 770	70	26			Ti 4	780 - 900			

### Characteristics / Applications:

Cadmium free Silver alloys are appreciated for excellent mechanical properties and bear good wetting characteristics. These are preferably used for brazing hard metals to steel mountings. Addition of nickel and manganese improves wettability on tungsten and molybdenum materials. Joint-brazing at working temperatures of max. 200°C without loss in strength.

**Heat sources:** acetylene torch, induction and resistance heating

**Braze family of alloys is available in:** strip, wire, powder, paste, preforms, ring and rods bare and flux coated

## Silver based alloys cadmium-bearing

LIN-Alloy	Composition in %						Melting Range °C	Standard		
	Ag	Cu	Zn	Cd	Si	Ni		ISO 17672	EN 1044	AWS A5.8
TO 325	25	30	27,5	17,5			605 - 720	Ag 326	AG 307	BAG-33
TO 330	30	28	21	21			600 - 690	Ag 330	AG 306	
TO 335	35	26	21	18			610 - 700	Ag 335	AG 305	BAG-2
TO 340	40	19	21	20			595 - 630	Ag 340	AG 304	
TO 345	45	15	16	24			605 - 620	Ag 345	AG 302	BAG-1
TO 350	50	15,5	16,5	18			625 - 635	Ag 350	AG 301	BAG-1A
TO 351	50	15,5	15,5	16		3	635 - 655	Ag 351	AG 351	BAG-3

### Characteristics / Applications:

Silver alloys cadmium-bearing works at the lowest temperature with short melting ranges, free flowing alloys that are versatile, easy to use having high strength. This family of brazing alloy has excellent flow characteristics and mechanical properties. Being used successfully for the last many decades on nearly all ferrous and non ferrous alloys. Gap brazing with alloyed and unalloyed steel, nickel and nickel alloys, malleable cast iron, copper and copper alloys. Joint-brazing at working temperatures of max. 150°C without loss in strength. The above list is a standard range of our regular production, for any special request please do not hesitate to contact us directly or through our consultants. The cadmium bearing range of silver solders are not available for sale within the EU due to European directive from Commission Regulation (EU) No 494/2011.

**Heat sources:** acetylene torch, induction and resistance heating

**Braze family of alloys is available in:** strip, wire, powder, paste, preforms, ring and rods bare and flux coated

# Copper based alloys

## Copper brazing alloys

LIN-Alloy	Composition in %					Melting Range °C	Standard		
	Cu	Sn	Ni	Mn	Others		ISO 17672	EN 1044	AWS A5.8
ME 99	99,00				Cu <sub>2</sub> O 1	1085	Cu 099	CU 103	BCu-1a
ME 102	99,95					1085	Cu 102	CU 102	BCu-3
ME 110	99,90					1085	Cu 110	CU 101	BCu-1b
ME 141	99,90				P 0,075	1085	Cu 141	CU 104	BCu-1b
ME 188	99				Ag 1	1070 - 1080	Cu 188	CU 106	
ME 186	97		3		B 0,03	1085 - 1100	Cu 186	CU 105	
ZO 922	94	6			P 0,25	910 - 1040	Cu 922	CU 201	
ZO 925	88	12			P 0,25	825 - 990	Cu 925	CU 202	
ME 8703	87		3	10		965 - 995			
ME 8604	86			10	Co 4	980 - 1030			
ME 6022	60		20	20		990 - 1040			

### Characteristics / Applications:

These are copper base metal alloys used for high temperature brazing of steels & tungsten carbide. They have excellent corrosion resistance and high electrical and thermal copper conductivity. Copper is ductile, wets iron well and exhibits excellent joint penetration through capillary action. Furnace brazing in a protective atmosphere with the above alloys is an economical option for brazing carbon and low alloy steels. Pastes are formulated from alloy powders and specialty grade organic binders. Binders are chosen to decompose cleanly, well below brazing / working temperatures, leaving no residue. Several different environmentally friendly binder formulations are available. The above list is a standard range of our regular production, for any special request please do not hesitate to contact us directly or through our consultants.

**Heat sources:** inert-gas continuous furnace H<sub>2</sub>/N<sub>2</sub>, cracked ammonia, exogas, vacuum furnace

**Braze family of alloys is available in:** paste, powder, wire and ring

## Brass brazing alloys

LIN-Alloy	Composition in %					Melting Range °C	Standard		
	Cu	Zn	Sn	Si	Other		ISO 17672	EN 1044	AWS A5.8
NE 470	59	40,7	0,3			875 - 895	Cu 470	CU 302	RBcuZn-A
NE 4701	60	39,7		0,3		875 - 895	Cu 470a	CU 301	
NE 471	58	41,1	0,5	0,2	Mn 0,2	870 - 900	Cu 471	CU 304	RBcuZn-C
NE 670	60	39,3	0,2	0,3	Mn 0,2	870 - 900	Cu 670	CU 303	
NE 680	58	40	1	0,2	Mn 0,3 Ni 0,5	870 - 890	Cu 680	CU 306	
NE 773	48	41,8		0,2	Ni 10	890 - 920	Cu 773	CU 305	
NE 275	27,5	65	7,5			750 - 780			
NE 550	55	44,6		0,2	Mn 0,2	875 - 890			
NE 520	52	47,8		0,2		860 - 880			
NE 658	58,9	37,9	0,6	0,1	Mn 0,6 Ni 0,9Ag 1	865 - 885			
NE 758	58	38			Mn 4	880 - 910			

### Characteristics / Applications:

Brass brazing alloys are ideally suited for joining carbides, cast irons, steels and other ferrous alloys.

The above list is a standard range of our regular production, for any special request please do not hesitate to contact us directly or through our consultants.

**Heat sources:** acetylene torch, induction and resistance heating

**Braze family of alloys is available in:** wire, powder, paste

# Copper Phosphorus alloys

## Copper Phosphorus brazing alloys

LIN-Alloy	Composition in %						Melting Range °C	Standard		
	Cu	P	Ag	Ni	Sn	Si		ISO 17672	EN 1044	AWS A5.8
RO 178	95	5					710 - 925	CuP 178		
RO 179	93,8	6,2					710 - 890	CuP 179	CP 203	
RO 180	93	7					710 - 820	CuP 180	CP 202	
RO 181	92,7	7,3					710 - 793	CuP 181		BCuP-2
RO 182	92	8					710 - 770	CuP 182	CP 201	
RO 279	91,7	6,3	2				645 - 825	CuP 279	CP 105	
RO 280	91	7	2				643 - 788	CuP 280		BCuP-6
RO 281	89	6	5				645 - 815	CuP 281	CP 104	BCuP-3
RO 282	88,25	6,75	5				643 - 771	CuP 282		BCuP-7
RO 283	86,7	7,3	6				643 - 813	CuP 283		BCuP-4
RO 2831	86,6	7,3	6	0,1			643 - 813	CuP 283a	CP 103	
RO 284	80	5	15				645 - 800	CuP 284	CP 102	BCuP-5
RO 285	76,1	6,3	17,6				643 - 666	CuP 285		BCuP-8
RO 286	75	7	18				645	CuP 286	CP 101	
RO 385	86,2	7			6,5	0,3	635 - 675	CuP 385		BCuP-9
RO 386	86,2	6,8			7		650 - 700	CuP 386	CP 302	

### Characteristics / Applications:

Flux copper phosphorous brazing alloys are suitable for the fluxless brazing of copper and the brazing of copper alloys with flux. We recommend to use flux for copper alloys like brass and bronze joint. Pastes are formulated from alloy powders and specialty grade organic binders. Binders are chosen to decompose cleanly, well below brazing / working temperatures, leaving no residue. Several different environmentally friendly binder formulations are available. The above list is a standard range of our regular production, for any special request please do not hesitate to contact us directly or through our consultants

**Heat sources:** Inert-gas continuous furnace H<sub>2</sub>/N<sub>2</sub>, cracked ammonia, exogas, vacuum furnace, acetylene torch, induction and resistance heating

**Braze family of alloys is available in:** pastes, wire, powder, ring and rods



# Nickel based alloys

## Nickel brazing alloys

LIN-Alloy	Composition in %							Melting Range °C	Standard		
	Ni	Cr	Si	B	Fe	C	P		ISO 17672	EN 1044	AWS A5.8
EL 600	Rem.	14	4,5	3,1	4,5	0,75	0,02	980 - 1060	Ni 600	NI 101	BNi-1
EL 610	Rem.	14	4,5	3,1	4,5	0,06	0,02	980 - 1070	Ni 610	NI 1A1	BNi-1a
EL 612	Rem.	15		3,6	1,5	0,06	0,02	1055	Ni 612	NI 109	BNi-9
EL 620	Rem.	7	4,5	3,12	3	0,06	0,02	970 - 1000	Ni 620	NI 102	BNi-2
EL 630	Rem.		4,5	3,12	0,5	0,06	0,02	980 - 1040	Ni 630	NI 103	BNi-3
EL 631	Rem.		3,5	1,85	1,5	0,06	0,02	980 - 1070	Ni 631	NI 104	BNi-4
EL 650	Rem.	19	10,12	0,03		0,06	0,02	1080 - 1135	Ni 650	NI 105	BNi-5
EL 655	Rem.	22	6,5	0,01		0,16	4	960 - 1079	Ni 655		
EL 660	Rem.	19	7,2	1,3	0,5	0,1	0,02	1065 - 1150	Ni 660		BNi-5a
EL 661	Rem.	15	7,25	1,35	1	0,06	0,02	1030 - 1125	Ni 661		BNi-5b
EL 700	Rem.						11	875	Ni 700	NI 106	BNi-6
EL 710	Rem.	14	0,1	0,02	0,2	0,06	10,1	890	Ni 710	NI 107	BNi-7
EL 720	Rem.	25	0,1	0,02	0,2	0,06	10	880 - 950	Ni 720	NI 112	BNi-12
EL 621	Rem.	14	2	1,4	2	0,06	5,6	860 - 890			
EL 651	Rem.	29	4				6	990 - 1050			

### Characteristics / Applications:

Nickel-based brazing filler metals are suitable for different applications, brazing conditions and braze properties. Nickel products are suitable for brazing of stainless steels, as well as nickel and copper-based alloys. Pastes are formulated from alloy powders and specialty grade organic binders. Binders are chosen to decompose cleanly, well below brazing / working temperatures, leaving no residues. Several different environmentally friendly binder formulations are available. The above list is a standard range of our regular production, for any special request please do not hesitate to contact us directly or through our consultants.

**Heat sources:** Inert-gas continuous furnace H<sub>2</sub>/N<sub>2</sub>, cracked ammonia, exogas and vacuum furnace

**Braze family of alloys is available in:** pastes and powder



# Aluminium & Tin alloys

## Aluminium brazing alloys

LIN-Alloy	Composition in %						Melting Range °C	Standard		
	Al	Si	Fe	Cu	Mn	Zn		ISO 17672	EN 1044	AWS A5.8
LU 105	Rem.	5	0,6	0,3	0,15	0,1	575 - 630	Al 105	AL 101	
LU 107	Rem.	7,5	0,8	0,25	0,1	0,2	575 - 615	Al 107	AL 102	BAISI-2
LU 110	Rem.	10	0,8	0,3	0,05	0,1	575 - 590	Al 110	AL 103	BAISI-5
LU 112	Rem.	12	0,8	0,3	0,15	0,2	575 - 585	Al 112	AL 104	BAISI-4
LU 410	Rem.	10	0,8	0,3	0,05	1,75	576 - 588	Al 410		
LU 415	Rem.	11,75	0,8	0,25	0,1	1,75	576 - 609	Al 415		

## Soldering alloys

LIN-Alloy	Composition in %				Melting Range °C	Standard	
	Sn	Pb	Ag	Cu		ISO 9453:2006	ISO 3677
NO 101	63	37			183	101	S-Sn63Pb37
NO 103	60	40			183 - 190	103	S-Sn60Pb40
BO 111	50	50			183 - 215	111	S-Pb50Sn50
BO 113	45	55			183 - 226	113	S-Pb55Sn45
BO 114	40	60			183 - 238	114	S-Pb60Sn40
BO 115	35	65			183 - 245	115	S-Pb65Sn35
BO 116	30	70			183 - 255	116	S-Pb70Sn30
BO 117	20	80			183 - 280	117	S-Pb80Sn20
BO 121	15	85			226 - 290	121	S-Pb85Sn15
BO 122	10	90			268 - 302	122	S-Pb90Sn10
BO 123	5	95			300 - 314	123	S-Pb95Sn5
BO 124	2	98			320 - 325	124	S-Pb98Sn2
NO 401	99			1	227	401	S-Sn99Cu1
NO 402	97			3	227 - 310	402	S-Sn97Cu3
NO 501	99		0,3	0,7	217 - 227	501	S-Sn98Cu1Ag
NO 502	95		1	4	217 - 353	502	S-Sn95Cu4Ag1
NO 503	92		2	6	217 - 380	503	S-Sn92Cu6Ag2
NO 701	96		4		221 - 228	701	S-Sn96Ag4
NO 702	97		3		221 - 224	702	S-Sn97Ag3
NO 703	96,5		3,5		221	703	S-Sn96Ag4
NO 704	95		5		221 - 240	704	S-Sn95Ag5
NO 711	96,5		3	0,5	217 - 220	711	S-Sn96Ag3Cu1

### Characteristics / Applications:

Soldering alloys for HVAC, plumbing and electronic applications. Every solder meets the highest standards for consistent performance and purity. The electronics-grade solder powder are produced through noble gas atomization while maintaining low oxides perfectly sized and spherical shape. The above list is a standard range of our regular production, for any special request please do not hesitate to contact us directly or through our consultants. The lead bearing range of soft-solders are not available for sale within the EU due to European directive from Commission Regulation 2002/95/EC.

**Heat sources:** hot-air, torch, induction, resistance heating and laser

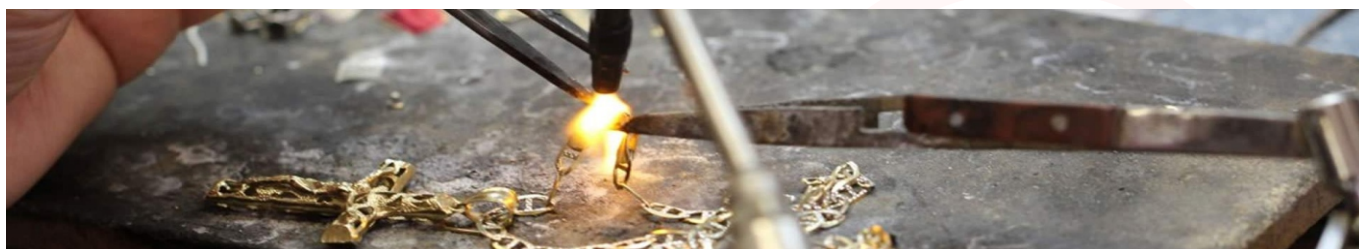
**Braze family of alloys is available in:** paste, powder, rods, solid and flux cored wires



# Gold alloys & Fluxes

## Precious brazing filler metals

LIN-Alloy	Composition in %						Melting Range °C	Standard		
	Au	Ag	Pd	Cu	Ni	In		ISO 17672	EN 1044	AWS A5.8
AU 295	30			70			995 - 1020	AU 295a	AU 104	
AU 300	30		34		36		1135 - 1165	AU 300		BAu-5
AU 351	35			62	3		975 - 1030	AU 351		BAu-3
AU 354	35			65			990 - 1010	AU 354		BVAu-9
AU 375	38			62			980 - 1000	AU 375a	AU 103	BAu-1
AU 503	50			50			955 - 970	AU 503		BVAu-10
AU 625	63			37			930 - 940	AU 625	AU 102	
AU 700	70		8		22		1005 - 1045	AU 700		BAu-6
AU 752	75				25		950 - 990	AU 752	AU 106	
AU 755	75	13		12			880 - 895	AU 755		
AU 800	80			20			890	AU 800		BAu-2
AU 827	82				18		950	AU 827a	AU 105	BAu-4
AU 927	92		8				1200 - 1240	AU 927		BAu-8



### Characteristics / Applications:

Extensive range of high purity, low vapor pressure precious brazing filler metals derived from gold and palladium based alloys and exceeds the most stringent requirements imposed by the power tube, aerospace, semiconductor, medical, electronic and vacuum industries in which they serve. The above list is a standard range of our regular production, for any special request please do not hesitate to contact us directly or through our consultants.

**Heat sources:** inert-gas continuous furnace H<sub>2</sub>/N<sub>2</sub>, cracked ammonia, exogas, vacuum furnace

**Braze family of alloys is available in:** paste and powder

## Brazing & Solder fluxes

LIN-Flux	Form	EN 1045	Working Range °C	Applications
W1	Powder	FH 10	550 - 800	General purpose
W2	Powder	FH 10	600 - 850	General purpose for high temperature
W2/P	Paste	FH 10	550 - 800	General
W3	Powder	FH 20	700 - 1000	For high temperature
W4	Powder	FH 21	700 - 1000	For high temperature
W5	Powder	FL 10	550 - 650	For Aluminium 4000 and 5000 series
W6	Powder	FL 10	550 - 650	For Aluminium 4000 to 6000 series

# Particle size converter

This chart shows cross references among various units of measure for powder particle sizes.

SIZE IN MYCRONS	SIZE IN INCHES	U.S. STANDARD MESH SIZE	TYLER MESH SIZE	BRITISH STANDARD MESH SIZE
1			12500 theoretical	
2			6250 theoretical	
5			2500 theoretical	
10			1250 theoretical	
15			800 theoretical	
20			625 theoretical	
25			500 theoretical	
33	.0013	425		
38	.0015	400		
45	.0017	325	325	
53	.0021	270	270	300
63	.0025	230	250	
66	.0026			240
75	.0029	200	200	
76	.0030			200
90	.0035	170	170	170
106	.0041	140	150	150
125	.0049	120	115	120
147	.0058		100	
150	.0059	100		
152	.0060			100
175	.0069		80	
180	.0070	80		85
208	.0082		65	
212	.0083	70		72
246	.0097		60	
250	.0098	60		
251	.0099			60
259	.0116		48	52
300	.0117	50		
350	.0139	45	42	44
417	.0164		35	
420	.0165	40		
495	.0195		32	
500	.0197	35		30
600	.0234	30	28	25
699	.0275			22
701	.0276		24	
710	.0278	25		
833	.0328		20	
850	.0331	20		
853	.0336			18
991	.0390		16	
1000	.0394	18		



## Customer's care

*LINBRAZE* 's objective is to help the customers in over 150 countries to discover new ways to save on overall costs, improving the quality of their brazing processes thus improving the quality of their parts produced using our materials.

*LINBRAZE* supports the customers through the study of their latent or emerging needs, the creation and the development of products/services capable to meet their requests.

*LINBRAZE* is concentrated on offering transparent, effective and understandable communication to the customers. Understanding what is important to our customers gives us the opportunity to bring to them the solutions most suited to their needs.

Our objective is to propose the superior quality of *LINBRAZE* in terms of product, service, technical assistance and technology, presenting a business proposal with the right solutions in terms of optimization of the costs incurred by the customer.



### Guidance to the Solution

*LINBRAZE* provides its customers with simple and innovative solutions tested in our labs before being proposed to them, guaranteed by 11 subsidiaries in more than 18 countries.

Our consultative approach is focused to resolve problematic issues and improve production processes of our customers.

For more information about our solutions, for your industry, please contact us at the Headquarters in the Division Brazing & Metal Powders Division:

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# Timely Delivery Service

*LINBRAZE* offers its customers a timely delivery service. By having centralized our manufacturing and our warehouse in our headquarters in Italy, we have the ability to manage with flexibility and immediacy the urgent requirements. Efficient services of logistics and transport with immediate availability in stock, make *LINBRAZE* a partner flexible, secure and reliable.



## Worldwide Distribution

*LINBRAZE* is present in several countries in the world with agencies, direct and indirect. Contact us for more information about the point of sale nearest you.





Representative agent:

# Brazing Filler Metals

Jump into the deep of the brazing



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*The future is in your hands*