



BRAZING ALLOYS MANUFACTURER



- ✓ Silver Brazing Alloys
- ✓ Cadmium Bearing
- ✓ Strips, Rings, Wires
- ✓ Copper- Phosphorus Alloys
- ✓ Copper Brazing Alloys
- ✓ Brass
- ✓ Fluxes

- ✓ Since 1996
- ✓ Best Quality
- ✓ Technical Support
- ✓ Customer Oriented Service
- ✓ Prompt Delivery



SILVER METAL CATALOGUE

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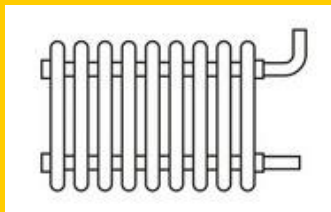
INDUSTRIES WE SERVE



HEATING, VENTILATING, AIR CONDITIONING



REFRIGERATION



RADIATORS



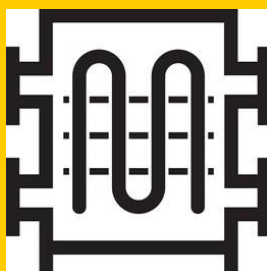
MINING



DIAMOND TOOLS



AUTOMOTIVE



HEAT EXCHANGERS



MEDICAL DEVICES

About Us

Founded in 1996, Silver Metal Alasimlari is a leading company specialized in the manufacturing of silver brazing alloys based in Istanbul. We are a leading manufacturer of Cadmium Free Silver Brazing Alloys, Cadmium Bearing Silver Brazing Alloys, Copper-Phosphorus Brazing Alloys, Silver Copper Phosphorous Alloys and Welding Alloys. Our products are in the form of rods, wires, rings, preforms, strips and foils.

Silver Metal manufactures silver brazing alloys for various industrial sectors such as diamond tools, metal jewellery, refrigeration, air conditioning heating systems, chandeliers, plumbing heating and sanitary field, and industrial supply. Our advanced production system and efficient supply chain enables us to meet the need of our customers. We support our precious customers in choosing the appropriate alloys, we guarantee them high quality products and a continuous cooperation. Customization is one of the key aspects and we produce the goods based on your requirements.

Silver Metal with more than 26 years of industry experience offers the most extensive and widest range of brazing alloys and brazing related products at highest quality, Our products are manufactured based on internationally accepted technical and environmental standards. We provide our customers the necessary assistance and consulting to enable the best and optimal technical results.

Silver Brazing Alloys – Cadmium Bearing

Silver brazing alloys cadmium-bearing indicated below work at the lowest temperature with short melting ranges, are free-flowing alloys, and very versatile. They possess excellent flow characteristics and mechanical properties therefore they can be used successfully on nearly all ferrous and non-ferrous alloys. Silver Metal ensures the purest metals are used in the production of silver brazing alloys to maintain its product quality and performance. We offer these alloys in a wide range of compositions to suit the specific applications. They are available in wires, rods, fluxcoated rods, strips, preforms, rings, etc. Since Cadmium and its oxides are toxic, special safety precautions must be followed during brazing operations.

CODE	Ag	Cu	Zn	Cd	MELTING RANGE °C	ISO 17672 2010	DIN EN 1044	DIN 8513	AWS	BS 1845
SV550	50	15	16	19	620-635	Ag 350	AG 301	L- Ag50Cd	BAg-1a	AG1
SV545	45	17	18	20	620-635	Ag 345	AG 302	L- Ag45Cd	BAg-1	
SV540	40	19	21	20	595-630	Ag 340	AG 304	L- Ag40Cd		
SV538	38	20	22	20	608-655					AG3
SV535	35	26	21	18	610-700	Ag 335	AG 305		BAg-2	
SV530	30	28	21	21	607-685	Ag 330	AG 306	L -Ag30Cd	BAg-2a	AG12
SV525	25	33	25	17	605-720	Ag 326	AG 307		BAg-3a	
SV520	20	40	25	15	605-765		AG 309	L-Ag20Cd		
SV512	12	50	31	7	620-825			L-Ag12Cd		
SV510	10	50	33	7	620-825					



Silver Brazing Alloys – Cadmium Free

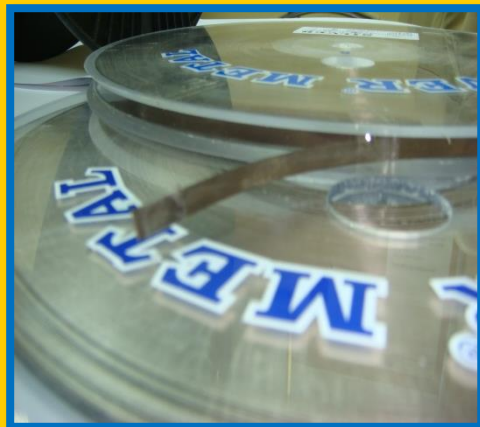
General purpose, low temperature, free-flowing silver brazing alloys that do not contain cadmium. They are used for joining a wide range of ferrous and non-ferrous (steel, iron, copper, brass, etc.) similar and dissimilar base metals in order to give strong and neat joints. Silver Metal ensures the purest metals are used in the production of silver brazing alloys to maintain its product quality and performance. We offer these alloys in a wide range of compositions and various forms. They are available in wires, rods, fluxcoated rods, strips, preforms, rings, etc. All these alloys don't contain cadmium therefore do not possess any Health & Safety concerns and are compliant with RoHS regulations.

CODE	Ag	Cu	Zn	Other	Melting Range °C	ISO 17672 2010	DIN EN 1044	DIN 8513	AWS	BS 1845
SV663	63	24	13		690-730		AG 201			
SV655	55	21	22	2 Sn	630-660	Ag 155	AG 103	L-Ag55Sn		AG14
SV650	50	34	16		688-774	Ag 250			BAG-6	
SV645	45	27	25	3 Sn	640-680	Ag 145	AG 104	L-Ag45Sn	BAG-36	
SV644	44	30	26		675-735	Ag 244	AG 203	L-Ag44		
SV640	40	30	28	2 Sn	650-710	Ag 140	AG 105	L-Ag40Sn	BAG-28	AG20
SV638	38	31	29	2 Sn	660-720	Ag 138			BAG-34	
SV634	34	37	27	2 Sn	630-730	Ag 134	AG 106	L-Ag34Sn		
SV630	30	38	32		680-765	Ag 230	AG 204			
SV630Sn	30	36	32	2 Sn	665-755	Ag 130	AG 107	L-Ag30Sn		AG21
SV625	25	40	35		700-790	Ag225	AG 205	L-Ag25		
SV620	20	44	36		690-810		AG 206	L-Ag20		
SV612	12	48	40		800-830	Ag 212	AG 207	L-Ag12		
SV605	5	55	40		830-870	Ag 205	AG 208	L-Ag5		
SV672	72	28			780-780	Ag 272	AG 401	L-Ag72	BAG-8	AG7
SV640Ni	40	30	28	2 Ni	670-780	Ag 440			BAG-4	
SV649Ni	49	16	23	***	680-705	Ag 449	AG 502		BAG-22	

Silver Brazing Alloys Strips

Brazing alloys with and without silver used in the manufacturing of diamond tools, saw blades, tungsten carbide tipped tools, mining drill bits, tools for working and cutting of stone, surgical instruments, knives for paper cutting, plowshares, and many other applications as well. We offer a wide range of Silver Brazing Alloy Strips based on clients' specifications, sizes and applications. Manufactured with complete precision, they possess high strength, short melting ranges and besides are versatile and free-flowing.

CODE	Ag	Cu	Zn	Cd	Melting Range	ISO 17672 2010	DIN EN 1044	DIN 8513	AWS	BS 1845
SV530	30	28	21	21	607-685	Ag 330	AG 306	L-Ag30Cd	BAg-2a	AG12
SV630 Sn	30	36	32	2 Sn	665-755	Ag 130	AG 107	L-Ag30Sn		AG 21
SV634	34	37	27	2 Sn	630-730	Ag 134	AG 106	L-Ag34Sn		
SV540	40	19	21	20	595-630	Ag 340	AG 304	L-Ag40Cd		
SV640	40	30	28	2 Sn	650-710	Ag 140	AG 105	L-Ag40Sn	BAg-28	AG20
SV644	44	30	26		675-735	Ag 244	AG 203	L-Ag44		
SV645	45	27	25.5	2.5 Sn	640-680	Ag 145	AG 104	L-Ag45Sn	BAg-36	
SV649	49	16	23	4,5 Ni - 7,5 Mn	680-705	Ag 449	AG 502	B-Ag-22		



Copper Phosphorous Alloys

Copper- phosphorus brazing alloys have good fluidity, low melting temperature and are mainly composed of copper and phosphorus. These alloys are widely used in joining copper and copper base metal alloys such as brass, or bronze. Self fluxing copper based brazing alloys by containing phosphorus facilitate the brazing copper to copper in air without using flux. The use of flux is recommended for copper alloys like brass and bronze. Satisfactory corrosion resistance except sulfurous environments. They may or may not contain Silver. For improved electrical conductivity and ductility silver based lower phosphorus alloys are available. . We offer these alloys in a wide range of compositions to suit the specific applications. They are available in wires, rods, preforms, rings, etc.

CODE	Ag	Cu	P	Other	MELTING RANGE °C	ISO 17672 2010	DIN EN 1044	DIN 8513	AWS
SV118	18	Balance	7		643-666	CuP 285	CP 101		
SV115	15	Balance	5		645-800	CuP 284	CP 102	L-Ag15P	B-CuP-5
SV105	5	Balance	6		645-815	CuP 281	CP 104	L-Ag5P	B-CuP-3
SV102	2	Balance	6,5		645-825	CuP 279	CP 105	L-Ag2P	B-CuP-6
SV 86-S		Balance	7	7Sn	650-700	CuP 386	CP 302		B-CuP-9
SV 192		Balance	8		710-770	CuP 182	CP 201		B-CuP-1
SV 193		Balance	7		710-820	CuP 180	CP 202	L-CuP6	B-CuP-2
SV 194		Balance	6		710-890	CuP 179	CP 203		



Brass Brazing Alloys

These base metal alloys are used in high temperature brazing of steels, copper, iron and tungsten carbide. It is a cost effective and good physical ability alloy. They are mostly used for welding among copper, steel, iron and hard carbide tools. Brass brazing alloys are used in metal process, diamond tools, marine repair industries, etc. Silver Metal offers a wide range of copper and silver brazing alloys to suit your welding applications, a wide variety of brazing, welding and soldering alloys for joining most applications encountered in the field. We offer the following compositions:

CODE	Cu	Zn	Ag	Mn	Sn	Si	Melting Range	ISO 17672 2010	DIN EN 1044	AWS
SV260	60	Bal				0,30	875-895	Cu 470a	CU 301	
SV259	59	Bal			0,40	0,30	875-895	Cu 470	CU 302	RBCuZn-A
SV260	60	Bal		0,15		0,30	870-900	Cu 670	CU 303	
SV260	59	Bal		0,70	0,40	0,30	870-890	Cu 471	CU 304	RBCuZn-C
SV259	59	Bal	1	0,10	0,10	0,10	870-890			



Fluxes

Fluxes are commonly used with many braze filler metals. Flux absorbs the oxides emerged during heating and enables the the flow of filler metal. We provide our customers fluxes with varying chemical compositions and components based on your need. The mixture is used to ensure smooth application and adherence. Please find below the types of fluxes and pastes we provide and request our consulting to get the most suitable product.

- Fluxes for Silver Brazing Alloys
- Fluxes for Brass and Copper Brazing Alloys
- Fluxes for Aluminium Alloys
- Fluxes for Soft-Soldering Alloys
- Liquid Fluxes for Braze- Welding



✓ **Best Quality**

Our products are manufactured in Turkey with most advanced technology and machinery. We assure you the best quality and service.

✓ **Customer Oriented Service**

We support our customers by recommending the appropriate products for their needs and we aim to optimize their brazing operations by customization.

✓ **Fast Delivery**

Our goal is to deliver the products as soon as possible following your orders so that our precious customers can enable the continuity of their the supply chains.

✓ **Technical Support**

Our very experienced and qualified personnel is ready to give you the necessary technical support and provide you the technical certificates.

✓ **Experienced Personnel**

We share with you our expertise to optimize your brazing processes and provide you optimal solutions.

✓ **Research & Development**

We highly invest in R&D to create the most innovative products and follow the global trends in terms of modern machinery and production facilities.



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