

High Purity Alloys

Alloy Type	Filler Metal Name	Solidus		Liquidus		Nominal Composition										AWS Spec
		F	C	F	C	Ag	Au	Cu	Ni	Pb	Pd	Pt	Sn	Other		
Pure Metals	CDA 101	1981	1083	1981	1083			99.990							BVCu-1x	
	CDA 102	1981	1083	1981	1083			99.950							BCu-3	
	99.0 Commercial Pure Nickel	2642	1450	2642	1450				100.000						--	
	99.93/99.95 Commercial Grade Fine Silver	1761	961	1761	961	99.930									--	
	99.99 Commercial Grade Fine Silver	1761	961	1761	961	99.990									--	
	99.90 Commercial Grade Commercial Silver	1761	961	1761	961	99.900									--	
	99.99 Commercial Pure Gold	1947	1064	1947	1064		99.000								--	
	99.95 Commercial Pure Palladium	2826	1552	2826	1552						99.950				--	
99.95 Commercial Pure Platinum	3216	1769	3216	1769							99.950			--		
Silvaloy Alloys	Silvaloy 503 VTG	1435	779	1600	871	50.000		50.000							BVAg-6b Grade 2	
	Silvaloy 604 VTG Gr1 & Gr2	1115	602	1325	718	60.000		30.000				10.000			BVAg-18 Grade 1 and 2	
	Premabrazze 616	1155	624	1305	707	61.500		24.000					14.5 In		BVAg-29 Grade 1	
	Silvaloy 285	1435	780	1555	846	85.000		15.000	2.500			6.000			BAG-21	
	Silvaloy 697 VTG	1435	779	1435	779	69.700		28.000					.3 Co, 2 Ge		--	
	Silvaloy 711	1435	779	1465	796	71.150		28.100	0.750						--	
	Silvaloy 716 VTG Gr2	1435	779	1465	796	71.500		28.000	0.500						BVAg-8b Grade 2	
	Silvaloy 717 VTG Gr1	1435	779	1465	796	71.500		28.000	0.500						BVAg-8b Grade 1	
	Silvaloy 720	1435	779	1435	779	72.000		28.000							Bag-8	
	Premabrazze 721 VTG Gr1	1435	779	1435	779	72.000		28.000							BVAg-8 Grade 1	
Soldering Filler Metals	Silvabrite	430	221	430	221	3.600							96.400		--	
	Silvabrite 100	440	227	660	349	0.500		4.000					95.500		--	
	Silvabrite S	430	221	473	245	4.600							95.400		--	
	Silvabrite 6	430	221	536	280	5.600							94.400		--	
	Silvabrite 973	440	227	572	300			3.500					96.500		--	
	95 Sn / 5 Sb	450	232	464	240								95.000	5Sb	--	
	62 Sn / 36 Pb / 2 Ag	354	179	372	189	2.000				36.000			62.000		--	
	63 Sn / 37 Pb	361	183	361	183					37.000			63.000		--	
	60 Sn / 40 Pb	361	183	375	191					40.000			60.000		--	
	50 Sn / 50 Pb	361	183	421	216					50.000			50.000		--	
	40 Sn / 60 Pb	361	183	460	238					60.000			40.000		--	
	92.5Pb/5In/2.5Ag	572	300	599	315	2.500				92.500				5In	--	
	97.5 Pb / 1.5 Ag / 1 Sn	588	309	588	309	1.500				97.500			1.000		--	
	92.5Pb/5Sn/2.5Ag	550	288	570	299	2.500				92.500			5.000		--	
	97.5 Pb / 2.5 Ag	580	304	580	304	2.500				97.500					--	
	99.95 Pure Tin	449	232	449	232								99.950		--	
	SAC 305	423	217	426	219	3.000		0.500					96.500		--	
	SAC 387	423	217	423	217	3.800		0.700					95.500		--	
	SAC 405	423	217	437	225	4.000		0.500					95.500		--	
	SAC 0307	423	217	441	227	0.300		0.700					99.000		--	
	Gold Based Solders	Premabrazze 408	1535	835	1553	845	20.000	60.000	20.000							--
Premabrazze 800		536	280	536	280		80.000					20.000			--	
Premabrazze 880		673	356	673	356		88.000							12 Ge	--	
KOVAR	Kovar	2640	1449						0.290					17Co, Bal Fe		
Active Alloys	Active 241	1148	620	1328	720	60.000		24.000						14 In, 2 Ti	--	
	Active 270	1435	779	1472	800	70.000		28.000						2 Ti	--	
	Active 273	1435	779	1481	805	70.500		26.500						3 Ti	--	
	Tiger Ink					Used in conjunction with multiple different alloys										--

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Precision. Quality. Speed.

As electrical component size decreases, the importance of quality increases. Microelectronics are relied upon by the aerospace, automotive, defense, and medical industries. Because of this, it is critical to use the highest quality braze and solder alloys that provide the most robust connections. From gold-tin alloys to tin and lead based solders, Lucas Milhaupt is an industry leader in supplying superior quality alloys for the microelectronics industry.

Get to Market First

Fast Quoting

Meet your customers' deadlines with fast, guaranteed quoting windows.

Rapid Prototyping

Small run production capabilities and in-house design teams get prototypes.

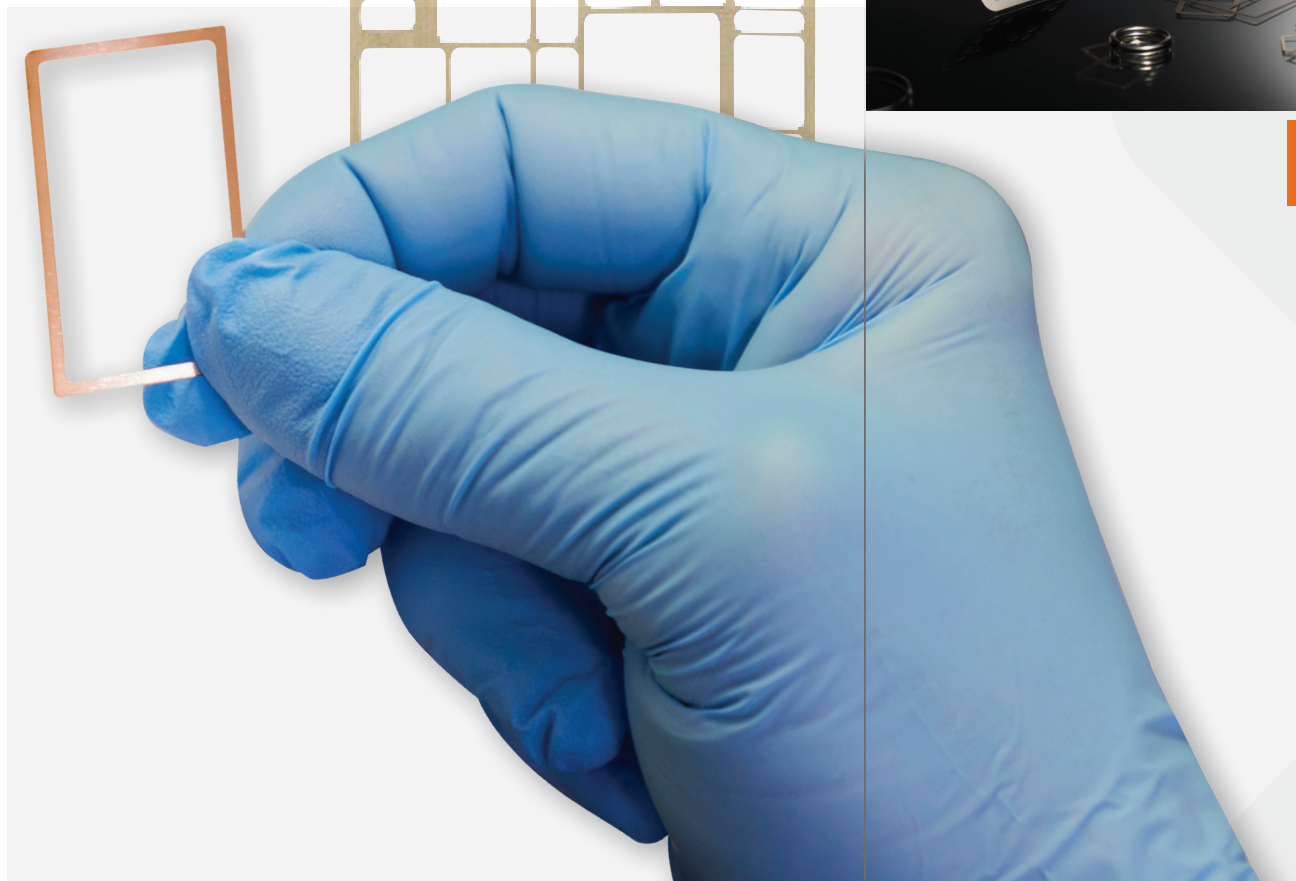
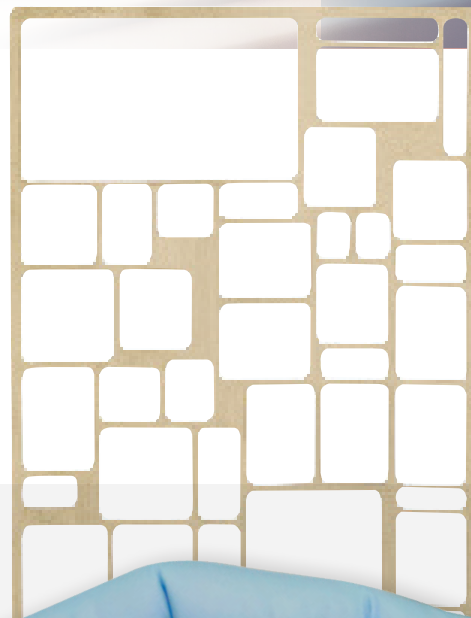
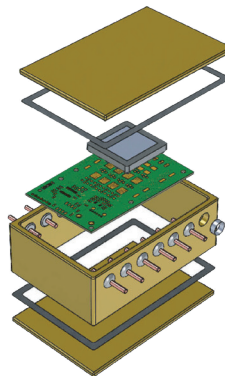
Short Lead Times

Warehousing and strategic locations allow us to provide best-in-class lead times.

High Precision Capabilities

Our precision state-of-the-art fabrication capabilities enable us to support customers during the R&D process to test, prototype, and manufacture innovative designs at extremely tight tolerances.

- Metal stamping
- Slitting
- Strip rolling
- Wire drawing
- EDM
- Preforms
- Pastes and fluxes
- Precision laser



Products that Ensure Critical Joint Integrity

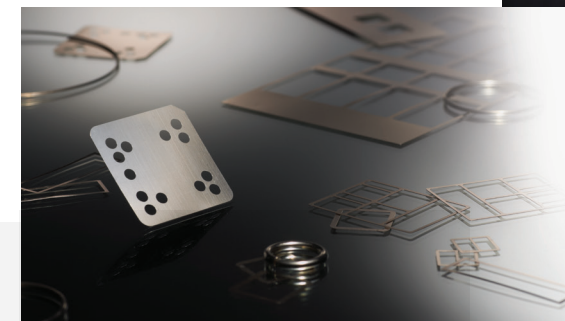
High-quality, high-precision brazing products enable customers to achieve even the most demanding hermetic seals to maintain the life of mission critical microelectronics.

- Precision microstampings
- Specialty preforms
- Custom designs
- High quality alloys



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