

White metals for all plain bearings



Delivery form	Dimension	Weight
Blocks	Approx. 90 x 60 x 335 mm	Approx. 8 - 10 kg

Article No.	Alloy	Composition (weight %)								Melting range	Density (kg/dm ³)
		Sn	Pb	Sb	Cu	Ni	As	Cd	Zn		
13090055	PbSb14Sn9CuAs (WM9)	9	75.2	14	1	0.2	0.3	0.3	-	-	240 - 420°C 9.7
13100055	PbSb15Sn10 (WM10)	10	73.7	15	0.7	-	0.6	-	-	-	240 - 380°C 9.9
13080055	Pb73.4Sb15Sn10Cu1As0.6	10	73.4	15	1	-	0.6	-	-	-	240 - 420°C 9.9
13800055	SnSb12Cu6Pb (WM80)	80	2	12	6	-	0.1	-	-	Fe 0.1 - Bi 0.08	183 - 400°C 7.4
138000551	Sn85Sb8Cu7	85	-	8	7	-	-	-	-	-	
13890055	SnSb8Cu4 (WM89)	89	<0.35	7.15	3.15	-	<0.1	<0.05	<0.01	-	233 - 360°C 7.3
138900551	SnSb8Cu4	89	<0.06	7.15	3.15	-	<0.1	<0.05	<0.01	-	233 - 360°C 7.3
137700551*	MS ² - Sn81.3Sb12Cu6Zn0.6Ag0.1	81.3	-	12	6	-	-	-	0.6	Ag 0.1	235 - 360°C 7.4

Other alloys on request.

*Our white metal MS² - Sn81.3Sb12Cu6Zn0.6Ag0.1 was tested by Siemens in 2019 and successfully approved for Siemens Berlin production.

SIEMENS - Results:

- The chemical composition of the white metal from FELDER Löttechnik complies with the Siemens technical delivery specification.
- The bonding strength is in the range of the tensile strength of the white metal and thus meets the requirements of the Siemens technical delivery specification.
- Hardness crystals as well as stannides are homogeneously distributed in the SnSb-matrix.
- The size of the hardness crystals is smaller than they typically are. This property and the homogeneous distribution of the secondary phases are to be seen as advantageous for the mechanical properties of the material. From a materials technology point of view, the material can be used as an alternative.

Note on the use of white metals containing lead:

Please note that according to the current REACH regulation lead is classified as toxic for reproduction (H360-362) and specific organ toxicity (H372) and on the candidate list of substances of concern is standing.

Classification and restrictions on disposal begin at 0.3% lead content. Corresponding Safety measures must be observed when using lead.

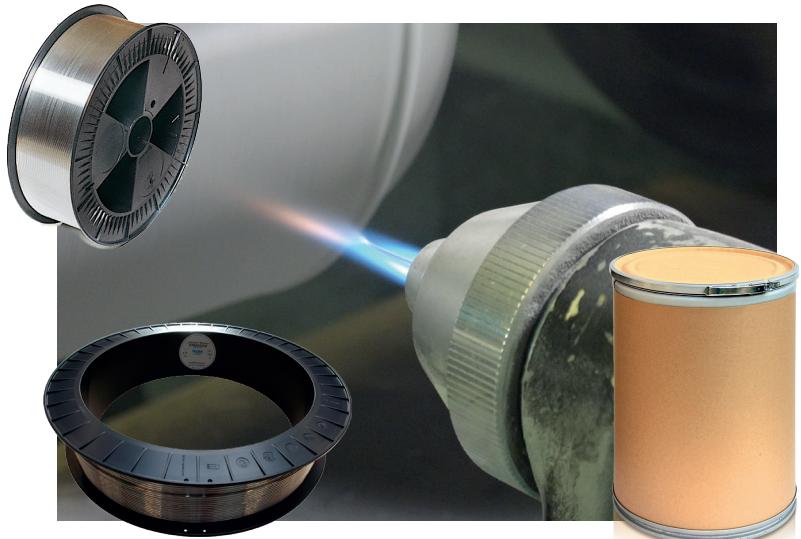


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Thermal spray wires

Depending on the alloy, as a conductive layer in electronics, as corrosion protection, and as a metal coating in target and plain bearing production.

Delivery form	Dimension	Containers
Solid wire	1.6 to 4.8 mm 1/8" - 3/16"	Spool SD300K Spool SH390K Wire drums



Article no.	Alloy	Composition (weight %)									Density (kg/dm ³)
		Sn	Pb	Sb	Cu	Ni	As	Cd	Zn	Other	
1499.....	Sn99.9	99.9	-	-	-	-	-	-	-	-	232°C
1497.....	Sn97Cu3	97	-	-	3	-	-	-	-	-	227 - 310°C
1389.....	SnSb8Cu4	89	0.06	7.15	3.15	-	-	-	-	-	233 - 360°C
1389.....	SnSb8Cu4 (WM89)	89	<0.35	7.15	3.15	-	-	-	-	-	233 - 360°C

Other alloys on request.

We are happy to manufacture individual dimensions or packaging according to your wishes. Our technicians also support you in all questions concerning flame spraying and arc spraying.

Tin plating paste for bearing shells

Tipping and pre-tipping of bearing support bodies

Alloys according to DIN EN ISO 9453,
flux according to DIN ISO EN 9454-1, 3114
ready-to-use metal paste

PU	Delivery form	Content
25 pc	Box	0.500 kg
15 pc	Box	1.000 kg
1 pc	Bucket	4.000 kg



Alloy	Melting range	Remarks
Sn99.9%	232 °C	„Lead-free“ - RoHS-konform



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