

Hardiall® C72900

A spinodal hardened alloy ideal for applications where the load required exceeds the performance of copper-nickel-aluminum-based materials.

Hardiall products

AMS	UNS	Temper	Composition
4596	C72900	TX 00	CuNi15Sn8
4597	C72900	TX TS	CuNi15Sn8
4598	C72900	TX 00	CuNi15Sn8

Hardiall is a registered trademark of Lebronze alloys.

Wieland Concast certifications

- AS9100:2016-certified quality management system
- ISO 9001:2015-certified quality management system

Hardiall advantages:

- Excellent high-friction wear resistance
- Excellent lubricity
- Low magnetic sensitivity
- Excellent machinability
- Maximum corrosion resistance
- High galling resistance
- An ideal substitute for beryllium copper



Hardiall® C72900 overview

Chemical composition

Ni + Co (%)	Sn (%)	Fe (%) max	Zn (%) max	Mn (%) max	Cb (%) max	Mg (%) max	Pb (%) max	Cu (%)
14.50-15.50	7.50-8.50	0.50	0.50	0.30	0.10	0.15	0.02	remain.

AMS 4596 solids

Size O.D.	Weight per inch	Weight per foot	Size O.D.	Weight per inch	Weight per foot	Size O.D.	Weight per inch	Weight per foot
0.750	0.143	1.714	2.250	1.286	15.427	3.750	3.571	42.853
1.000	0.254	3.047	2.500	1.587	19.046	4.000	4.063	48.758
1.250	0.397	4.761	2.625	1.750	20.998	4.500	5.142	61.709
1.500	0.571	6.857	2.750	1.921	23.046	5.000	6.349	76.184
1.750	0.778	9.333	3.000	2.286	27.426	5.500	7.682	92.182
1.875	0.893	10.713	3.250	2.682	32.188	6.000	9.142	109.705
2.000	1.016	12.189	3.500	3.111	37.330	6.750	11.570	138.845

AMS 4597 solids

Size O.D.	Weight per inch	Weight per foot	Size O.D.	Weight per inch	Weight per foot	Size O.D.	Weight per inch	Weight per foot
0.750	0.143	1.714	1.250	0.397	4.761	1.750	0.778	9.333
1.000	0.254	3.047	1.500	0.571	6.857	2.000	1.016	12.189

AMS 4598 tubes

Nom. size I.D. x O.D.	Weight per inch	Weight per foot	Nom. size I.D. x O.D.	Weight per inch	Weight per foot	Nom. size I.D. x O.D.	Weight per inch	Weight per foot
3.000 x 4.500	3.015	36.179	3.500 x 5.000	3.374	40.492	6.440 x 7.660	4.718	56.615
				5.875	5.922	8.560	8.613	103.355

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