

ECO BRASS

wieland
chase

HIGH PERFORMANCE SILICON BRASS

Lead-free, excellent machinability, forgeability, and high strength equivalent to stainless steel, while eliminating the problems of stress corrosion cracking and dezincification.

Advantages:

- Lead-free, arsenic-free, and bismuth-free
- S3874 & AB1953 compliant
- Dezincification corrosion resistant
- Stress corrosion cracking resistant
- NSF 14 compliant
- Excellent machinability
- Hot forgeability
- Solders and brazes with standard materials
- Wear resistance equal to commercial bronze
- Strength equal to stainless steel
- 100% recyclable



C69300

APPLICATION: MACHINE-FORGING
 ASTM: B371
 LENGTHS: 10 TO 16 FEET
 BUNDLE WEIGHTS: 1,000 – 4,000 LBS.

INGOT C87850

APPLICATION: INGOT
 ASTM: B30
 LENGTHS: 12 INCHES
 INGOT WEIGHTS: 17 LBS / INGOT
 1,700 LBS / 100 INGOTS BOXED

Chemistry Composition

Rod Alloy	CU	Si	P	Pb	Fe	Sn	Ni	Mn	Sb	Zn
C69300	73.0-77.0%	2.7-3.4%	0.04-0.15%	0.09% max	0.10% max	0.20% max	0.10% max	0.10% max	—	Remain.
C87850	75.0-78.0%	2.7-3.4%	0.05-0.20%	0.09% max	0.10% max	0.30% max	0.20% max	0.10% max	0.10% max	Remain.

C69300 Sizes/shapes

 Round
0.375" - 2.50"

 RC Hex
0.437" - 2.00"

 Shapes
Consult Mill

C69300 Diameter/tolerances +/-

Diameter	Round	Hexagonal, Octagonal
>0.150" - 0.500"	0.002"	0.004"
>0.500" - 1.000"	0.003"	0.005"
>1.000" - 2.000"	0.004"	0.006"
>2.000"	0.20%	0.40%

C69300 Minimum Mechanical Properties

Diameter (inch)	Tensile (ksi)	Yield (ksi)	Elongation (%)
>0.150" - 0.500"	85	45	5
>0.500" - 1.000"	75	35	10
>1.000" - 2.000"	70	30	10

C87850 Sizes/shapes

Shape	English	Length
Extruded Octagon Solid	2.400"	12"-12'

C87850 Diameter/tolerances +/-

Diameter (inch)	Octagonal
>2.000"	40%

C87850 Minimum Mechanical Properties

Casting Method	Tensile (ksi)	Yield (ksi)	Elongation (%)	ASTM
Sand	59	22	16	B584
Permanent Mold	64	32	16	B806
Continuous Cast	65	25	8	B505



Your Leading Source For Brass Solutions

For More Information

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