

ECO BRONZE®

HIGH PERFORMANCE SILICON BRONZE

Tough bearing material that is environmentally friendly and cost effective. With no added arsenic or bismuth, ECO BRONZE® is a great lead-free* alternative to C93200.

* This product complies with 0.25% weighted average lead content on wetted surfaces in accordance with Safe Drinking Water Act (SDWA) / Federal Public Law No. 111-380.

Advantages

- No lead, no arsenic, and no bismuth added
- S3874 & AB1953 compliant
- Dezincification resistant
- Stress corrosion cracking resistant
- Meets NSF 14/ANSI corrosion requirements
- NSF/ANSI/CAN 372 compliant
- Excellent machinability
- Good castability
- Solders and brazes with standard materials
- Wear resistance equal to or better than SAE 660
- C69300 strength comparable to annealed 303 stainless
- 100% recyclable
- High fluidity



this is
**TOUGH
STUFF**

C69300

Application: Machining-forging
 Astm: B371
 Lengths: 10 to 16 feet
 Bundle weights: 1,000 – 4,000 lbs.

INGOT C87850

Application: Casting
 Astm: B30
 Lengths: 12 inches
 Ingot weights: 17 lbs / Ingot 2,500 lbs / Pallet

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



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'

Available as continuous cast product:

Extruded rounds solids (sold as C693)	0.375" - 2.500"	105"
Cast round solids and rectangles	0.500" - 12.000"	105"
Cast round hollows	0.500" - 12.000"	105"
	4.000" - 36.000"	52" Max

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

