

ECO BRASS®

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.

* 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/ANSI 14 corrosion requirements
- NFS/ANSI/CAN 372 compliant
- Excellent machinability
- Hot forgeability
- Solders and brazes with standard materials
- Wear resistance equal to or better than SAE 660
- Strength comparable to annealed 303 stainless
- 100% recyclable



Don't
cut
corners
on my
house

C69300

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

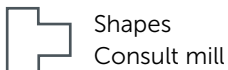
INGOT C87850

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" 4.000" - 36.000" | 105" 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 |

