

Brass Powders



ACuPowder offers environmentally friendly brass powders. These unleaded grades include 90/10, 80/20, and 70/30 copper/zinc alloys. Since lead is a toxic material, we have developed a special unleaded brass powder for P/M fabricators. All our Brass powders are available with or without (“U”) lubricant.

P/M Brass Powders and Applications

Brass is a metallurgical alloy of Copper and Zinc, the most common combinations being 90/10, 80/20, 70/30. Some industrial alloys include lead which enhances machining characteristics. It is used in areas where corrosion resistance and/or appearance are required. Typical parts include lock components, fasteners, valves, marine hardware, business machines, knife handles and poker chips.

Typical Powder Properties (Lubricated with 0.5% Lithium Stearate and 0.25% Zinc Stearate)

Grade MPIF Designation Composition	9010 CZ-1000 90Cu/10Zn	8020 CZ-2000 80Cu/20Zn	7030 CZ-3000 70Cu/30Zn
Apparent Density g/cc	3.35	3.30	3.25
Flow Secs.	33	33	33
Screen Mesh	- 60	- 60	- 60
Green Strength psi	1500-1700	1300-1500	1000-1200
Sintering Temp. °F	1640	1640	1600
Dimensional Change %	-0.5 /-0.9	-1.3/-2.0	-2.0/-3.0
Transverse Rupture Strength psi	55,000/65,000	65,000/75,000	75,000/85,000

Test samples were compacted to 7.2g/cc and sintered in a 12.5% hydrogen, balance nitrogen atmosphere.

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ISO 9001

*From industry pioneer to industry leader,
We are innovation in motion*

ISO 14001

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