Brass

CuZn37 / CW508 / C27200 / CZ108

Version 3

Reference standard: EN 12166

Symbol	Number	Element	Cu	Al	Fe	Ni	Pb	Sn	Zn	Bal.	Density g/cm³
CuZn37	CW508	Min %	62.0	-	-	-	-	-	-	Rem	8.4
		Max %	64.0	0.05	0.1	0.3	0.1	0.1	-	-	

Brass wire is a copper zinc alloy and is available in a range of alloys from 90% copper / 10% zinc to 63% copper / 37% zinc. The higher the percentage of zinc in the alloy the greater the cold working strength, whilst the higher the copper content the greater the ductility. Brass wire is manufactured in flat, round and square section in a full range of sizes and tempers to meet customer requirements.

Typical Tensile Strength N/mm2					
Size Range	Soft	¼ Hard	½ Hard	Hard	Spring Hard
0.1-0.5mm	360-450		610-750	610-750	800min
0.5-1.5mm	330-420	510-610	-	-	750min
1.5-4.0mm	300-380	470-570	560-700	560-700	700min
4.0–8.0mm	-	460-560	550-680	550-680	-
4.0–20.0mm	280-370	-	-	-	-

Physical Properties:

- Resistivity: 0.067 (Ω x mm²/m)
- Temperature coefficient of resistance at 20-100°C (1/K): 0.0015
- Elongation at soft temper: >30%

Tolerances:

<0.25mm	±0.005mm
0.25-0.50mm	±0.008mm
0.50-1.00mm	±0.012mm
1.00-2.00mm	±0.02mm
2.00-4.00mm	±0.03mm

Typical applications:

- Jewellery and ornamental trims
- Components for the electrical industry
- Industrial fasteners
- Coinage, medals
- Resistance wire
- Brush / anchor wire

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