

HM Wire International, Inc.

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Alloy 411 - Copper Zinc Brass

Definition: C41100 is categorized as Wrought Copper Alloy. It is commonly called UNS C41100 Copper-zinc brass.

Applications: It is a source material in many processes including the creation of electrical components and bullet-making. Alloy 411 is a component in such objects as trumpets and cymbals, doorknobs and locks, ammunition, valves, gears, and bearings. It is a common alloy used to make coins. This alloy plays an important role in manufacturing tools for use around explosive gases, and in cryogenics. It is used as a test control metal for protective coatings research. Other items include plates, tubes, pipes, forgings, castings, bushings, washers, terminals, connectors, flexible metal hose, and conductors.

Nominal	Cu%	Sn%	Zn%
Composition:	91%	0.5%	8.5%

Mechanical Properties

Properties	Conditions		
	T (°C)	Treatment	
Density (x 1000 kg/m ³)	8.8 - 8.94	25	
Poisson's Ratio	0.34	25	
Elastic Modulus (GPa)	117	25	
Tensile Strength (MPa)	269-731		
Yield Strength (MPa)	76-496		
Elongation (%)	13	25	(Flat Products, wire)

*To be used as a guideline only.

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