

Alloy CW617N

Alloy denomination

EN	ISO	ASTM	BS
CW617N	CuZn40Pb2	C37700	CZ122

User sectors

Automotive and transport industry, chemical industry, mechanical industry, fashion industry, plumbing industry, construction industry, electronic industry, electrical industry and medical industry.

General properties

The alloy CW617N is characterised by high workability and is mainly used in hot forging. Thanks to the limited presence of lead, this high-performing alloy is included in the 4MS list of the European directives and it can be used for products that have to be in contact with drinking water.

Chemical composition

Cu (%)	Al (%)	Fe (%)	Ni (%)	Pb (%)	Sn (%)	Si (%)	Zn (%)	Other (%)
57,0 - 59,0	≤ 0,05	≤ 0,3	≤ 0,1	1,6 - 2,2	≤ 0,3	≤ 0,03	Remainder	≤ 0,2

Mechanical properties*

Condition of material	Hardness - HB	Tensile strength - Rm (N/mm ²)	Yield strength 0,2% - Rp _{0,2} (N/mm ²)	Elongation - A (%)
M	80 - 150	430 - 500	220 - 350	15 - 30

*Indicative values for informational purposes only, specific properties and conditions of material may be arranged.

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Physical properties*

Density (g/cm ³)	8,4
Electrical conductivity (MS/m)	14,5
Electrical conductivity (IACS %)	25
Coefficient of thermal expansion (10 ⁻⁶ /K)	20,7
Thermal conductivity (W/(m K))	120
Specific heat (J/(kg K))	380
Elasticity module (kN/mm ²)	105
Melting point (°C)	880 - 895

*Indicative values for informational purposes only.

Fabrication properties*

Machinability						
Weldability						
Hot forming						
Cold forming						
Corrosion resistance						

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