

## Alloy CW603N

### Alloy denomination

EN	ISO	ASTM	BS
CW603N	CuZn36Pb3	C36000	CZ124

### 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 CW603N is characterised by a relatively high copper component and it is optimal for machining with chip removal. Its performance excels in the production of screws and components in general and in all high-speed machining. Furthermore, the alloy complies with the 4MS restrictions of the European directives.

### Chemical composition

Cu (%)	Al (%)	Fe (%)	Ni (%)	Pb (%)	Sn (%)	Si (%)	Zn (%)	Other (%)
60,0 - 62,0	≤ 0,05	≤ 0,3	≤ 0,2	2,5 - 3,5	≤ 0,2	≤ 0,03	Remainder	≤ 0,2

### Mechanical properties\*

Condition of material	Hardness - HB	Tensile strength - Rm (N/mm <sup>2</sup> )	Yield strength 0,2% - Rp <sub>0,2</sub> (N/mm <sup>2</sup> )	Elongation - A (%)
M	110 - 150	400 - 450	300 - 350	25 - 35

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

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## Physical properties\*

Density (g/cm <sup>3</sup> )	8,5
Electrical conductivity (MS/m)	13
Electrical conductivity (IACS %)	22
Coefficient of thermal expansion (10 <sup>-6</sup> /K)	20,5
Thermal conductivity (W/(m K))	120
Specific heat (J/(kg K))	380
Elasticity module (kN/mm <sup>2</sup> )	97
Melting point (°C)	870 - 895

\*Indicative values for informational purposes only.

## Fabrication properties\*

Machinability						
Weldability						
Hot forming						
Cold forming						
Corrosion resistance						

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