

## Alloy CW614N

### Alloy denomination

EN	ISO	ASTM	BS
CW614N	CuZn39Pb3	C38500	CZ121

### 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 CW614N is characterised by high machinability thanks to its relatively high lead content. This alloy exhibits optimal performance in free machining. Furthermore, the alloy complies with the 4MS restrictions of the European directives.

### Chemical composition

Cu (%)	Al (%)	Fe (%)	Ni (%)	Pb (%)	Sn (%)	Si (%)	Zn (%)	Other (%)
57,0 - 59,0	≤ 0,05	≤ 0,3	≤ 0,2	2,5 - 3,5	≤ 0,3	≤ 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	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 <sup>3</sup> )	8,4
Electrical conductivity (MS/m)	13,8
Electrical conductivity (IACS %)	24
Coefficient of thermal expansion (10 <sup>-6</sup> /K)	20,9
Thermal conductivity (W/(m K))	123
Specific heat (J/(kg K))	380
Elasticity module (kN/mm <sup>2</sup> )	105
Melting point (°C)	875 - 890

\*Indicative values for informational purposes only.

## Fabrication properties\*

Machinability						
Weldability						
Hot forming						
Cold forming						
Corrosion resistance						

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