

CuZn42 | Round bars



Alloy	CuZn42, CW510L	
Condition	Ø 80 mm	extruded and drawn
	Ø 81 -150 mm	extruded
Norm	DIN EN 12164	
Tolerance	DIN EN 12164, h10	
	Ø 3 mm	+0/-0,04 mm
	Ø 3-6 mm	+0/-0,05 mm
	Ø 6-10 mm	+0/-0,06 mm
	Ø 10-18 mm	+0/-0,07 mm
	Ø 18-30 mm	+0/-0,08 mm
	Ø 30-50 mm	+0/-0,16 mm
	Ø 50-80 mm	+0/-0,19 mm
Machinability	good	
Hot Workability	very good	
Cold Workability	good	
REACH	information obligations	
RoHS	conform	

Mechanical Properties

	Tensile strength R _m	Yield stress R _{p 0,2}	Elongation A	Hardness HB
Ø 2-14 mm R500-H135	≥ 500 N/mm ²	≥ 350 N/mm ²	≥ 5 %	≥ 135
Ø 15-40 mm R430-H110	≥ 430 N/mm ²	≥ 220 N/mm ²	≥ 10 %	110 - 160
Ø 41-80 mm R360-H090	≥ 360 N/mm ²	≤ 320 N/mm ²	≥ 20 %	90 - 125

Chemical Analysis

Cu 57,0 - 59,0 %
 Al max. 0,05 %
 Fe max. 0,3 %
 Ni max 0,3 %
 Pb max. 0,1 %
 Sn max. 0,3 %
 Zn Rest
 Others max. 0,2 %

The material CW510L exhibits medium strength values and has good corrosion resistance against water and water vapor. CW510L has good machinability and is very well suited for hot forming. The material is used, for example, in jewelry, components in electrical engineering, the automotive sector, and general mechanical engineering.

Comparable Specifications

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