

CuZn39Pb3 | Round bars



Alloy	CuZn39Pb3, CW614N	
Condition	< Ø 65 mm	drawn
	Ø 70-130 mm	extruded
	Ø 140-250 mm	cast & machined
Norm	DIN EN 12164	
Tolerance	Ø 4-6 mm	+0/-0.05 mm
	Ø 6.5-10 mm	+0/-0.06 mm
	Ø 10.5-18 mm	+0/-0.07 mm
	Ø 18.5-30 mm	+0/-0.08 mm
	Ø 31-50 mm	+0/-0.10 mm
	Ø 51-65 mm	+0/-0.12 mm
	extruded / cast DIN 1782	
	Ø 70-80 mm	+/-0.8 mm
	Ø 81-120 mm	+/-1.2 mm
	Ø 130-200 mm	+/-1.5 mm
	Ø 223-303 mm	+3/-0 mm
Machinability	very good	
Hot Workability	very good	
Cold Workability	bad	
REACH	information obligations	
RoHS	not conform	

Mechanical Properties

	Tensile strength R_m	Yield stress $R_{p0.2}$	Elongation A	Hardness HB
Ø 4-40 mm R430-H110	≥ 430 N/mm ²	≥ 220 N/mm ²	≥ 10 %	110-160
Ø 41-65 mm R360-H090	≥ 360 N/mm ²	≥ 320 N/mm ²	≥ 20 %	90-125
From dia 66 mm	„M“ as manufactured			

Main alloy for machining, Drilling and turning quality, for automatic machine processing. Turned parts of all kinds. Good heat formability. Die forging. Bad cold formability.

Chemical Analysis

Cu	57.0-59.0 %
Al	max. 0.05 %
Fe	max. 0.3 %
Ni	max. 0.3 %
Pb	2.5-3.5 %
Sn	max. 0.3 %
Zn	Rest
Others	max. 0.2 %

Comparable Specifications

CuZn39Pb3 (Ms58), 2.0401, DIN 17660
 C38500 UNS
 CZ 121-Pb3, BS 2870-2875

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