

CuZn37Mn3Al2PbSi | Round bars



Alloy	CuZn37Mn3Al2PbSi, CW713R	
Condition	≤ Ø 65 mm	drawn
	Ø 70-130 mm	extruded
	Ø 140-303 mm	cast & machined
Norm	DIN EN 12164	
Tolerance	drawn DIN 1756, h11	
	Ø 6 mm	+0/-0.08 mm
	Ø 8-10 mm	+0/-0.09 mm
	Ø 11-18 mm	+0/-0.11 mm
	Ø 19-30 mm	+0/-0.13 mm
	Ø 31-50 mm	+0/-0.16 mm
	Ø 51-75 mm	+0/-0.19 mm
	extruded/cast DIN 1782	
	Ø 70-80 mm	+0/-0.8 mm
	Ø 81-120 mm	+0/-1.2 mm
	Ø 130-200 mm	+0/-1.5 mm
	Ø 223-303 mm	+3/-0 mm
Machinability	medium	
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 5-50 mm R590-H150	≥ 590 N/mm ²	≥ 370 N/mm ²	≥ 10 %	150-220
Ø 31-50 mm R540-H130	≥ 540 N/mm ²	≥ 280 N/mm ²	≥ 15 %	130-170
≥ 81 mm M	as manufactured			

Chemical Analysis

Cu	57.0-59.0 %
Al	1.3-2.3 %
Mn	1.5-3.0 %
Fe	max. 1.0 %
Ni	max. 1.0 %
Pb	0.2-0.8 %
Si	0.3-1.3 %
Sn	max. 0.4 %
Zn	Rest
Others	max. 0.3 %

High-strength construction material. Good resistance to atmospheric corrosion, slightly aggressive waters and gases and oil corrosion. For high demands on sliding stress, high wear resistance. Medium machinability. Construction parts in mechanical engineering, slide bearings, valve guides, gear parts, piston rings.

Comparable Specifications

CuZn40Al2, 2.0550, DIN 17 660
C67400 UNS
CZ 135 BS, 2870-2875

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