

CuZn37Mn3Al2PbSi | Tubes

DATENBLATT



Alloy	CuZn37Mn3Al2PbSi, CW713R
Condition	≤ Ø 65 mm drawn ≥ Ø 65 mm extruded
Norm	DIN EN 12168
Tolerance	drawn DIN 12168 OD Class C / ID Class B extruded OD 66-77 mm OD +/- 0,6 mm / ID +/- 0,95 mm ≥ OD 82 mm OD +/- 1,6 mm / ID +/- 0,95mm
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
extruded M	as manufactured			
Wall thickness 5-10 mm				
R590-H150	≥ 590 N/mm ²	≥ 330 N/mm ²	≥ 10 %	150-190
Wall thickness 10-30 mm				
R540-H130	≥ 540 N/mm ²	≥ 280 N/mm ²	≥ 15 %	130-170

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