Data sheet

CuZn37/CW508L – Rolled products

Metalcenter Group

Internal alloy name:	**CW508L**
International alloy name:	**CuZn37**
DIN-Werkstoff no.:	**2.0321**
Alloy type:	**-**

Main usage

- Fasteners
- Industrial
- Casting characteristics
- Metal goods

Main properties

- Cold forming process

Important norms and literature

Rolled products
EN1652: Copper and copper alloys - Plate, sheet, strip and circles for general purposes.

Chemical composition (%) DIN EN

Cu	Al	Fe	Ni	Pb	Sn	Zn	Other elements
62,0-64,0	Max. 0,05	Max. 0,1	Max. 0,3	Max. 0,1	Max 0,1	Rest.	Max. 0,1

Typical mechanical properties DIN EN

Material condition	Thickness range (mm)	Rm MPa	$Rp_{0,2}$ MPa	A_{50mm} for thickness up to 2,5mm %	A for thickness up to 2,5mm %	Hardness HBW	Hardness HV
R300 (soft)	0,2 - 5	300-370	Max. 180	38	48	-	-
R350(1/2 hard)	0,2 – 5	350-440	Min. 170	19	28	-	-

** Information values only

Physical properties

Density (20 °C) g cm^{-3}	Solidification range °C	Electrical conductivity %IACS	Thermal conductivity (20 °C) W m^{-1} K^{-1}	Thermal expansion (20-300 °C) µm m^{-1} K^{-1}	Annealing temperature °C	E - modulus (20 °C) N mm^{-2}
8.44	916	26	121	20,2	450-650	-

Properties and information

Fabrication Properties

Hot Formability	**Good**
Cold Formability	**Excellent**

Joining Methods

Soldering	**Excellent**
Brazing	**Excellent**
Oxy-acetylene welding	**Good**
Gas-shielded arc welding	**Fair**