

Data sheet EN Cu-OF/CW008A 99,95 % pure copper Alumeco A/S				Internal alloy name: CW008A International alloy name: EN Cu-OF DIN-Werkstoff no.: 2.0040 Alloy type: Electrical conducting Revision date: 14-01-2021					
Main usage <ul style="list-style-type: none"> • Automotive • Builders Hardware • Consumer • Electrical • Fasteners • Industrial 		Main properties <ul style="list-style-type: none"> • High thermal and electrical conductivity • It has excellent forming properties 		Important norms and literature Extruded products EN 13601: Copper and copper alloys - Copper rod, bar and wire for general electrical purposes.					
Chemical composition (%) DIN EN									
Cu		Bi		Pb		Each		Other elements together	
99.95		Max. 0.0005		Max. 0.005		-		0.03	
Typical mechanical properties DIN EN									
Material condition	Round, Square & Hexagonal (mm)	Thickness range (mm)	Width range (mm)	Rm MPa	Rp_{0,2} MPa	A_{100mm} %	A %	Hardness HBW	Hardness HV
D	2-160	0,5-40	1-200	COLD WORKED WITHOUT SPECIFIED PROPERTIES					
R250	2-10	1-10	5-200	250	Min. 200	Min. 8	Min. 12	-	-
<small>** Information values only</small>									
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		
9,0	1080	100	390	17			-		
Properties and information									
Fabrication Properties					Joining Methods				
Hot Formability		Good			Soldering		Excellent		
Cold Formability		Excellent			Brazing		Excellent		
					Oxy-acetylene welding		Fair		
					Gas-shielded arc welding		Good		