

Data sheet EN Cu-OF/CW008A – Rolled products 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: 11-01-2021					
Main usage <ul style="list-style-type: none"> • Electrical conductors • Automotive 		Main properties <ul style="list-style-type: none"> • High thermal and electrical conductivity • Good welding and excellent soldering properties • Good corrosion resistance 		Important norms and literature Rolled products EN1652: Copper and copper alloys - Plate, sheet, strip and circles for general 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 1652							
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
R220 (soft)	0,2 - 5	220-260	Max. 140	33	42	-	-
R240(1/2 hard)	0,2 – 15	240-300	Min. 180	8	15	-	-
<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	