

Data sheet EN Cu-ETP/CW004A 99,9 % pure copper - Bars Alumeco A/S				Internal alloy name: CW004A International alloy name: EN Cu-ETP DIN-Werkstoff no.: 2.0060 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 13601									
Cu		Bi		Pb		O		Other elements	
								Each	together
99.90		Max. 0.0005		Max. 0.005		Max. 0.040		-	0.03
Typical mechanical properties DIN EN 13601									
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 (F25)	2 - 10	1 - 10	5-200	250	Min. 180	Min. 8	Min. 12	-	-
R280 (F30)	2 - 10	1 - 10	5-200	280	Min. 240		Min. 10	83 - 100	90 - 110
** 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			
9,0	1070	100	390	17		-			
Properties and information									
Fabrication Properties					Joining Methods				
Hot Formability		Good			Soldering		Excellent		
Cold Formability		Excellent			Brazing		Good		
					Oxy-acetylene welding		Less Suitable		
					Gas-shielded arc welding		Fair		