

Data sheet CuZn38As/CW511L Alumeco A/S		Internal alloy name: CW511L International alloy name: CuZn38As DIN-Werkstoff no.: - Alloy type: - Revision date: 19-01-2021						
Main usage <ul style="list-style-type: none"> Fittings, sanitary industry Pipe connector Plumbers fittings Water applications 	Main properties <ul style="list-style-type: none"> Good cold formability Good Machinability Excellent resistance to stress corrosion cracking Very low lead content 	Important norms and literature EN12164: Copper and copper alloys. Rod for free machining purposes EN12165: Copper and copper alloys. Wrought and unwrought forging stock EN12167: Copper and copper alloys. Profiles and bars for general purposes						
Chemical composition (%) DIN EN 12164								
Cu	Al	As	Fe	Ni	Pb	Sn	Zn	Other elements
61,5-63,5	Max. 0,05	0,02- 0,15	Max. 0,1	Max. 0,3	Max. 0,2	Max. 0,1	Rem.	Max. 0,2
Typical mechanical properties DIN EN 12164								
Material condition	As Manufactured							
M								
<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		
8.41	880-910	28	125	21,7	450-550	103,400		
Properties and information								
Fabrication Properties		Joining Methods						
Hot Formability	Good	Soldering	Excellent					
Cold Formability	Very Good	Brazing	Excellent					
		Oxy-acetylene welding	Fair					
		Gas-shielded arc welding	Fair					