

<b>Data sheet</b>  <b>CW617N/ CuZn40Pb2</b>  <b>Alumeco A/S</b>		<b>Internal alloy name:</b> CW617N <b>International alloy name:</b> CuZn40Pb2 <b>DIN-Werkstoff no.:</b> 2.0402 <b>Alloy type:</b> Electrical conducting <b>Revision date:</b> 19-01-2021					
<b>Main usage</b> <ul style="list-style-type: none"> <li>Fittings, sanitary industry</li> <li>Turned parts</li> <li>Electrical engineering</li> <li>Machine and vehicle construction</li> <li>Precision engineering</li> <li>optics</li> </ul>		<b>Main properties</b> <ul style="list-style-type: none"> <li>Very good machinability</li> <li>Very good heat-formability</li> </ul>		<b>Important norms and literature</b> 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			
<b>Chemical composition (%) DIN EN</b>							
Cu	Al	Fe	Ni	Pb	Sn	Zn	Other elements
57,0-59,0	Max. 0,05	Max. 0,3	Max. 0,3	1,6-2,5	Max 0,3	Rest.	Max. 0,2
<b>Typical mechanical properties DIN EN</b>							
Material condition	As Manufactured						
M							
<small>** Information values only</small>							
<b>Physical properties</b>							
Density (20 °C) g cm <sup>-3</sup>	Solidification range °C	Electrical conductivity %IACS	Thermal conductivity (20 °C) W m <sup>-1</sup> K <sup>-1</sup>	Thermal expansion (20- 300 °C) µm m <sup>-1</sup> K <sup>-1</sup>	Annealing temperature °C	E - modulus (20 °C) N mm <sup>-2</sup>	
8.4	895	27	117	-	450-600	-	
<b>Properties and information</b>							
<b>Fabrication Properties</b>				<b>Joining Methods</b>			
Hot Formability		Excellent		Soldering		Excellent	
Cold Formability		Limited		Brazing		Good	
				Oxy-acetylene welding		Not Recommended	
				Gas-shielded arc welding		Not Recommended	