

<b>Data sheet</b>  <b>CW614N/ CuZn39Pb3</b>  <b>Alumeco A/S</b>		<b>Internal alloy name:</b> CW614N <b>International alloy name:</b> CuZn39Pb3 <b>DIN-Werkstoff no.:</b> 2.0401 <b>Alloy type:</b> Electrical conducting <b>Revision date:</b> 19-01-2021					
<b>Main usage</b> <ul style="list-style-type: none"> <li>Sanitary-industry</li> <li>Swivel part</li> <li>Electro-technology</li> <li>Engine- and vehicle construction</li> </ul>		<b>Main properties</b> <ul style="list-style-type: none"> <li>Very good free-cutting</li> <li>Main-chipping-alloy</li> <li>Very good hot forming</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. Wire 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	2,5-3,5	Max 0,3	Rest.	Max. 0,2
<b>Typical mechanical properties DIN EN</b>							
<b>Material condition</b>	<b>As Manufactured</b>						
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<small>** Information values only</small>							
<b>Physical properties</b>							
<b>Density (20 °C)</b> g cm <sup>-3</sup>	<b>Solidification range</b> °C	<b>Electrical conductivity</b> %IACS	<b>Thermal conductivity (20 °C)</b> W m <sup>-1</sup> K <sup>-1</sup>	<b>Thermal expansion (20-300 °C)</b> µm m <sup>-1</sup> K <sup>-1</sup>	<b>Annealing temperature</b> °C	<b>E - modulus (20 °C)</b> N mm <sup>-2</sup>	
8.4	890	28	121	21,4		-	
<b>Properties and information</b>							
<b>Fabrication Properties</b>				<b>Joining Methods</b>			
<b>Hot Formability</b>		<b>Excellent</b>		<b>Soldering</b>		<b>Excellent</b>	
<b>Cold Formability</b>		<b>Poor</b>		<b>Brazing</b>		<b>Good</b>	
				<b>Oxy-acetylene welding</b>		<b>Not Recommended</b>	
				<b>Gas-shielded arc welding</b>		<b>Not Recommended</b>	