

<b>Data sheet</b>  <b>CW503L</b> <b>CuZn20– Rolled products</b>  <b>Alumecco A/S</b>		Internal alloy name: <b>CW503L</b> International alloy name: <b>CuZn20</b> DIN-Werkstoff no.: <b>2.0250</b> Alloy type: <b>-</b> Revision date: <b>14-01-2021</b>					
<b>Main usage</b> <ul style="list-style-type: none"> <li>• Electrical</li> <li>• Architecture</li> <li>• Builders hardware</li> <li>• Consumer</li> <li>• Industrial</li> <li>• Other applications (jewellery)</li> </ul>		<b>Main properties</b> <ul style="list-style-type: none"> <li>• Good welding and brazing properties</li> <li>• Good corrosion resistance</li> </ul>		<b>Important norms and literature</b> Rolled products EN1652: Copper and copper alloys - Plate, sheet, strip and circles for general purposes.			
<b>Chemical composition (%) DIN EN</b>							
Cu	Al	Fe	Ni	Pb	Sn	Zn	Other elements
79,0-81,0	Max. 0,02	Max. 0,05	Max. 0,3	Max. 0,05	Max 0,1	Rest.	Max. 0,1
<b>Typical mechanical properties DIN EN</b>							
Material condition	Thickness range (mm)	Rm MPa	Rp <sub>0,2</sub> MPa	A <sub>50mm</sub> for thickness up to 2,5mm %	A for thickness up to 2,5mm %	Hardness HBW	Hardness HV
R270 (soft)	0,2 - 5	270-320	Max. 150	38	48	-	-
R320(1/2 hard)	0,2 – 5	320-400	Min. 200	20	28	-	-
<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>	
8.5	970	34	140	19		-	
<b>Properties and information</b>							
<b>Fabrication Properties</b>				<b>Joining Methods</b>			
Hot Formability		Excellent		Soldering		Excellent	
Cold Formability		Good		Brazing		Excellent	
				Oxy-acetylene welding		Good	
				Gas-shielded arc welding		Good	