

Data sheet CW618N CuZn40Pb2Al Alumeco A/S	Internal alloy name: CW618N International alloy name: CuZn40Pb2Al DIN-Werkstoff no.: --- Alloy type: Non-Electrical conducting Revision date: 14-01-2021
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Main usage <ul style="list-style-type: none"> • structures • façade structure and curtain walls • doors and window casements • Railings • Flat bars • Architecture 	Main properties <ul style="list-style-type: none"> • Very good polished surface • Very good machinability • Very good bending 	Important norms and literature Extruded products EN 12167: Copper and copper alloys – profiles and bars for general purposes.
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Chemical composition (%) DIN EN 12167						
Cu	Al	Pb	Fe	Ni	Sn	Zn
57-59	0,05-0,5	1,6-3,0	0-0,3	0-0,3	0-0,3	Rest

Typical mechanical properties DIN EN 12167									
Material condition	Thickness range (mm)	Width range (mm)	R _m N/mm ²	R _{p0,2} MPa	A _{100mm} %	A _{11.3} %	A %	Hardness HV	
			Min.	Approximately	Min.	Min.	Min.	Approximately	
M	As delivered	As delivered	As delivered	As delivered	As delivered	As delivered	As delivered	As delivered	

** Information values only

Physical properties						
Density (20 °C) g cm ⁻³	Tensile strength MPa	Electrical conductivity %IACS	Thermal conductivity (20 °C) W m ⁻¹ K ⁻¹	linear expansion (20-300 °C) mm/m x 1°C	Annealing temperature °C	E - modulus (20 °C) MPa
8.3	390	--	80	0,019		85000

Properties and information

Fabrication Properties <table border="1" style="width: 100%;"> <tr> <td>Hot Formability</td> <td>Good</td> </tr> <tr> <td>Cold Formability</td> <td>Good</td> </tr> </table>	Hot Formability	Good	Cold Formability	Good	Joining Methods <table border="1" style="width: 100%;"> <tr> <td>Soldering</td> <td>Good</td> </tr> <tr> <td>Brazing</td> <td>Good</td> </tr> <tr> <td>welding</td> <td>Not Recommended</td> </tr> <tr> <td></td> <td></td> </tr> </table>	Soldering	Good	Brazing	Good	welding	Not Recommended		
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