



<p><b>Datasheet:</b></p> <p><b>EN AW-7022</b>  <b>Sheet, strip &amp; plate - Aluminium</b></p> <p>Alumeco ApS            08-04-2025</p>				<p>Internal alloy name: 7022</p> <p>Chemical Symbol: EN AW-AI Zn5Mg3Cu            International alloy name: EN AW-7022</p> <p>UNS: A97022            DIN-Werkstoff no.: 3.4345            Alloy type: Heat treatable alloy</p>								
<p><b>Main usage:</b></p> <ul style="list-style-type: none"> <li>Tool- and mouldmaking</li> <li>Drive technology</li> <li>Machinery and device construction</li> <li>Military and Aerospace</li> </ul>			<p><b>Important norms and literature:</b></p> <p><b>General Standards:</b>            EN 573-3:2013: Aluminium and aluminium alloys – Chemical composition and form of wrought products – Part 3: Chemical composition and form of products.</p> <p><b>Product standards:</b>            EN 485-2:2008: Aluminium and aluminium alloys – Sheet, strip and plate – Part 2: Mechanical properties.</p>					<p><b>Geometric Tolerance:</b>            EN 485-3:2005: Aluminium and aluminium alloys – Sheet, strip and plate – Part 3: Tolerances on dimensions and form for hot-rolled products</p> <p>EN 485-4:2000: Aluminium and aluminium alloys – Sheet, strip and plate – Part 4: Tolerances on shape and dimensions for cold-rolled products</p>				
<p><b>Main properties:</b></p> <ul style="list-style-type: none"> <li>Very high strength</li> <li>Great polishability</li> <li>Good machinability</li> </ul>												
<p><b>Chemical composition in %: EN 573-3:2013</b></p>												
Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Remarks	Others			
Remainder	Max. 0,50	Max. 0,50	0,50 – 1,0	0,10 – 0,40	2,6 – 3,7	0,10 - 0,30	4,3 – 5,2	0,20 Ti+Zr	Max. Each Total			
<p><b>Mechanical properties: EN 485-2:2008</b></p>												
Temper	Specified thickness $t$ mm	Tensile Stress $R_m$ MPa	Proof Stress $R_{p0,2}$ MPa	Elongation Min. %		Hardness HBW						
T6	3,0 ≤ $t$ < 50	Min. 450	Min. 370	A <sub>50mm</sub>	A	133						
	50 ≤ $t$ < 100	Min. 430	Min. 350	-	5	127						
	100 ≤ $t$ < 200	Min. 410	Min. 330	-	3	121						
T651	3,0 ≤ $t$ < 50	Min. 450	Min. 370	8	7 - 8	133						
	50 ≤ $t$ < 100	Min. 430	Min. 350	-	5	127						
	100 ≤ $t$ < 200	Min. 410	Min. 330	-	3	121						
<small>* Information values only;</small>												
<p><b>Physical properties:</b></p>												
Density g/cm <sup>3</sup>	Solidification range °C	Electrical conductivity %IACS	Thermal conductivity W/m K	Thermal expansion ( $\mu\text{m m}^{-1}\text{K}^{-1}$ )	Annealing temperature °C	E - modulus (N / mm <sup>2</sup> )						
2,78	600 – 650	32 - 38	130 – 160	23,6	380 – 420	70000						
<p><b>Properties and information's (3 high/good; 2 Middle; 1 Poor/bad)</b></p>												
<u>Resistance:</u> Corrosion index, general: 1 Marine Atm. Corr index: 1			<u>Weldability</u> TIG welding: 1 MIG welding: 1			<u>Anodizing:</u> Decorative anodizing surface treatment: 1 Protective anodizing index: 3 Hard anodizing: 2 Color anodizing: 2						
<u>Hot workability:</u> Extrusion: 1 Forging: 1			<u>Solderability</u> Brazability index: 1 Solderability index: 1									
<u>Cold formability:</u> Cold formability general: 1 Deep drawing: 1 Bending: 1			<u>Machinability</u> Machinability index: 2									