

<div>Datasheet:</div> <div>EN AW-7022</div> <div>Sheet, strip &amp; plate - Aluminium</div> <div>Alumeco ApS</div> <div>08-04-2025</div>					<div>Internal alloy name:</div> <div>7022</div> <div>Chemical Symbol:</div> <div>EN AW-Al Zn5Mg3Cu</div> <div>International alloy name:</div> <div>EN AW-7022</div> <div>UNS:</div> <div>A97022</div> <div>DIN-Werkstoff no.:</div> <div>3.4345</div> <div>Alloy type:</div> <div>Heat treatable alloy</div>					
<div>Main usage:</div> <div><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></div>			<div>Important norms and literature:</div> <div><div><div>General Standards:</div><div>EN 573-3:2013: Aluminium and aluminium alloys – Chemical composition and form of wrought products – Part 3: Chemical composition and form of products.</div></div><div><div>Geometric Tolerance:</div><div>EN 485-3:2005: Aluminium and aluminium alloys – Sheet, strip and plate – Part 3: Tolerances on dimensions and form for hot-rolled products</div></div><div><div>Product standards:</div><div>EN 485-2:2008: Aluminium and aluminium alloys – Sheet, strip and plate – Part 2: Mechanical properties.</div></div><div><div></div><div>EN 485-4:2000: Aluminium and aluminium alloys – Sheet, strip and plate – Part 4: Tolerances on shape and dimensions for cold-rolled products</div></div></div>							
<div>Main properties:</div> <div><ul style="list-style-type: none"><li>Very high strength</li><li>Great polishability</li><li>Good machinability</li></ul></div>										
<div>Chemical composition in %: EN 573-3:2013</div>										
Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Remarks	Others	
									Max.	
									Each	Total
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	0,05	0,15
<div>Mechanical properties: EN 485-2:2008</div>										
Temper	Specified thickness <i>t</i>	Tensile Stress <i>R<sub>m</sub></i>	Proof Stress <i>R<sub>p0,2</sub></i>	Elongation Min. %		Hardness HBW				
	mm	MPa	MPa	<i>A<sub>50mm</sub></i>	<i>A</i>					
T6	3,0 ≤ <i>t</i> < 50	Min. 450	Min. 370	8	7 - 8	133				
	50 ≤ <i>t</i> < 100	Min. 430	Min. 350	-	5	127				
	100 ≤ <i>t</i> < 200	Min. 410	Min. 330	-	3	121				
T651	3,0 ≤ <i>t</i> < 50	Min. 450	Min. 370	8	7 - 8	133				
	50 ≤ <i>t</i> < 100	Min. 430	Min. 350	-	5	127				
	100 ≤ <i>t</i> < 200	Min. 410	Min. 330	-	3	121				
<div>* Information values only;</div>										
<div>Physical properties:</div>										
Density	Solidification range	Electrical conductivity	Thermal conductivity	Thermal expansion	Annealing temperature	E - modulus				
g/cm³	°C	%IACS	W/m K	(µm m <sup>-1</sup> K <sup>-1</sup> )	°C	(N / mm²)				
2,78	600 – 650	32 - 38	130 – 160	23,6	380 – 420	70000				
<div>Properties and information's (3 high/good; 2 Middle; 1 Poor/bad)</div>										
<div>Resistance:</div> <div>Corrosion index, general: 1</div> <div>Marine Atm. Corr index: 1</div> <div>Hot workability:</div> <div>Extrusion: 1</div> <div>Forging: 1</div> <div>Cold formability:</div> <div>Cold formability general: 1</div> <div>Deep drawing: 1</div> <div>Bending: 1</div>			<div>Weldability</div> <div>TIG welding: 1</div> <div>MIG welding: 1</div> <div>Solderability</div> <div>Brazability index: 1</div> <div>Solderability index: 1</div> <div>Machinability</div> <div>Machinability index: 2</div>			<div>Anodizing:</div> <div>Decorative anodizing surface treatment: 1</div> <div>Protective anodizing index: 3</div> <div>Hard anodizing: 2</div> <div>Color anodizing: 2</div>				