

<b>Datasheet:</b>  <b>EN AW-7050</b> <b>Sheet, strip &amp; plate - Aluminium</b>  <b>Alumeco ApS</b> 23-03-2026	<b>Internal alloy name:</b> 7050  <b>Chemical Symbol:</b> EN AW-Al Zn6CuMgZr <b>International alloy name:</b> EN AW-7050  <b>UNS:</b> A97050 <b>DIN-Werkstoff no.:</b> 3.4144 <b>Alloy type:</b> Heat treatable alloy
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<b>Main usage:</b> <ul style="list-style-type: none"> <li>Aircraft structural applications</li> <li>Defense structural applications</li> <li>Fuselage components</li> </ul>	<b>Important norms and literature:</b>  <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.  <b>Geometric Tolerance:</b> LN 9073:1991 – Aerospace: Sheet and plate in wrought aluminium alloys, standard plane, rolled; dimensions, masses  <b>Product standards:</b> ASM International 10th Ed. 1990 – Metals Handbook, Vol.2 - Properties and Selection: Nonferrous Alloys and Special-Purpose Materials
<b>Main properties:</b> <ul style="list-style-type: none"> <li>High strength</li> <li>Good corrosion resistance</li> <li>Good fracture toughness</li> <li>Good fatigue resistance</li> </ul>	

**Chemical composition in %: EN 573-3:2013**

Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Remarks	Others	
										Max. Each	Total
Remainder	Max. 0,12	Max. 0,15	2,0 – 2,6	Max. 0,10	1,9 – 2,6	Max. 0,04	5,7 – 6,7	0,06	0,08 – 0,15 Zr	0,05	0,15

**Mechanical properties:**

Temper	Tensile Stress	Proof Stress	Elongation		Hardness HBW
	R <sub>m</sub> MPa	R <sub>p0,2</sub> MPa	Min. % A <sub>50mm</sub>	A	
T73510 / T73511	495	435	12	-	132
T7451	525	470	11	-	140
T7651	550	490	11	-	147

\* Information values only;

**Physical properties:**

Density	Solidification range	Electrical conductivity	Thermal conductivity	Thermal expansion	Annealing temperature	E - modulus
g/cm <sup>3</sup>	°C	%IACS	W/m K	(µm m <sup>-1</sup> K <sup>-1</sup> )	°C	(N / mm <sup>2</sup> )
2,83	488 - 630	39	157	23,6	415	72000

**Properties and information's (3 high/good; 2 Middle; 1 Poor/bad)**

<b>Resistance:</b> Corrosion index, general: 1-2 Marine Atm. Corr index: 1  <b>Hot workability:</b> Extrusion: - Forging: -  <b>Cold formability:</b> Cold formability general: - Deep drawing: - Bending: -	<b>Weldability</b> TIG welding: 1 MIG welding: 1  <b>Solderability</b> Brazability index: 1-2 Solderability index: 1-2  <b>Machinability</b> Machinability index: 2	<b>Anodizing:</b> Decorative anodizing surface treatment: 1 Protective anodizing index: 1-2 Hard anodizing: - Color anodizing: -
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