

Datasheet: EN AW-7021 Sheet, strip & plate - Aluminium Alumeco ApS 16-05-2025					Internal alloy name: 7021 Chemical Symbol: EN AW-Al Zn5,5Mg1,5 International alloy name: EN AW-7021 UNS: A97021 DIN-Werkstoff no.: - Alloy type: Heat treatable alloy					
Main usage: • Tool- and mouldmaking • Drive technology • Machinery and device construction			Important norms and literature: General Standards: EN 573-3:2013: Aluminium and aluminium alloys – Chemical composition and form of wrought products – Part 3: Chemical composition and form of products. Geometric Tolerance: EN 485-3:2005: Aluminium and aluminium alloys – Sheet, strip and plate – Part 3: Tolerances on dimensions and form for hot-rolled products Product standards: EN 485-2:2008: Aluminium and aluminium alloys – Sheet, strip and plate – Part 2: Mechanical properties. EN 485-4:2000: Aluminium and aluminium alloys – Sheet, strip and plate – Part 4: Tolerances on shape and dimensions for cold-rolled products							
Main properties: • Very high strength • Good MIG weldability • Great machinability • Great polishability										
Chemical composition in %: EN 573-3:2013										
Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Remarks	Others	
									Max.	
									Each	Total
Remainder	Max. 0,25	Max. 0,40	Max. 0,25	Max. 0.10	1,2 – 1,8	Max. 0,05	5,0 – 6,0	Max. 0,10 Ti + 0,08 – 0,18 Zr	0,05	0,15
Mechanical properties: EN 485-2:2008										
Temper	Specified thickness <i>t</i>	Tensile Stress <i>R_m</i>	Proof Stress <i>R_{p0,2}</i>	Elongation Min. %		Hardness HBW				
	mm	MPa	MPa	<i>A_{50mm}</i>	<i>A</i>					
T6	1,5 ≤ <i>t</i> < 3,0	Min. 400	Min. 350	7	-	121				
	3,0 ≤ <i>t</i> < 6,0	Min. 400	Min. 350	8	-					
* Information values only;										
Physical properties:										
Density	Solidification range	Electrical conductivity	Thermal conductivity	Thermal expansion	Annealing temperature	E - modulus				
g/cm³	°C	%IACS	W/m K	(µm m ⁻¹ K ⁻¹)	°C	(N / mm²)				
2,80	600 – 650	36 – 41	125 – 155	23,0	380 – 420	70000				
Properties and information's (3 high/good; 2 Middle; 1 Poor/bad)										
Resistance: Corrosion index, general: 2 Marine Atm. Corr index: 1 Hot workability: Extrusion: 1 Forging: 1 Cold formability: Cold formability general: 1 Deep drawing: 1 Bending: 1			Weldability TIG welding: 1 MIG welding: 2-3 Solderability Brazability index: 1 Solderability index: 1 Machinability Machinability index: 3			Anodizing: Decorative anodizing surface treatment: 1 Protective anodizing index: 3 Hard anodizing: 2 Color anodizing: 2				