

Datasheet: EN AW-7475 Sheet, strip & plate - Aluminium Alumecco ApS 23-03-2026		Internal alloy name: 7475 Chemical Symbol: EN AW-Al Zn5,5MgCu(A) International alloy name: EN AW-7475 UNS: A97475 DIN-Werkstoff no.: - Alloy type: Heat treatable alloy								
Main usage: <ul style="list-style-type: none"> Aircraft structural parts Military components Highly stressed components Fracture critical components 		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: LN 9073:1991 – Aerospace: Sheet and plate in wrought aluminium alloys, standard plane, rolled; dimensions, masses Product standards: ASM International 10th Ed. 1990 – Metals Handbook, Vol.2 - Properties and Selection: Nonferrous Alloys and Special-Purpose Materials								
Main properties: <ul style="list-style-type: none"> Superior fracture toughness Good resistance to fatigue cracking Superior strength 										
Chemical composition in %: EN 573-3:2013										
Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others	
									Each	Total
Remainder	Max. 0,10	Max. 0,12	1,2 – 1,9	Max. 0,06	1,9 – 2,6	0,18 – 0,25	5,2 – 6,2	Max. 0,06	0,05	0,15
Mechanical properties:										
Temper	Tensile Stress		Proof Stress		Elongation		Hardness			
	R _m MPa		R _{p0,2} MPa		Min. % A _{50mm} A		HBW			
T61	565		490		- -		148			
T651	585		510		13 -		150			
T7351	495		420		13 -		135			
T761	515		450		- -		140			
R7651	530		460		12 -		140			
* Information values only;										
Physical properties:										
Density	Solidification range	Electrical conductivity	Thermal conductivity	Thermal expansion	Annealing temperature	E - modulus				
g/cm ³	°C	%IACS	W/m K	(µm m ⁻¹ K ⁻¹)	°C	(N / mm ²)				
2,8	477 - 635	36 – 42	157	23,4	415	72000				
Properties and information's (3 high/good; 2 Middle; 1 Poor/bad)										
<u>Resistance:</u> Corrosion index, general: 1-2 Marine Atm. Corr index: 1 <u>Hot workability:</u> Extrusion: - Forging: - <u>Cold formability:</u> Cold formability general: - Deep drawing: - Bending: -			<u>Weldability</u> TIG welding: 1 MIG welding: 1 <u>Solderability</u> Brazability index: 1-2 Solderability index: 1-2 <u>Machinability</u> Machinability index: 2				<u>Anodizing:</u> Decorative anodizing surface treatment: 1 Protective anodizing index: 1-2 Hard anodizing: - Color anodizing: -			