

Datasheet: EN AW-3005 Coated sheet and strip - Aluminium Alumeco ApS 19-05-2025					Internal alloy name: 3005 Chemical Symbol: EN AW-AI Mn1Mg0,5 International alloy name: EN AW-3005 UNS: A93005 DIN-Werkstoff no.: 3.0525 Alloy type: -						
Main usage: - Furniture - Ladders and rolling shutters - Heat insulation			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 1396:2015: Aluminium and aluminium alloys – Coil coated sheet and strip for general applications 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: - Good mechanical properties - Good corrosion resistance - Good workability											
Chemical composition in %: EN 573-3:2013											
Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others		
									Max.		
									Each	Total	
Remainder	Max. 0,6	Max. 0,7	Max. 0,3	1,0 – 1,5	0,20 – 0,6	Max. 0,10	Max. 0,25	Max. 0,10	0,05	0,15	
Mechanical properties: EN 1396:2015											
Temper	Tensile Stress		Proof Stress		A _{50mm} % for specified thickness t (mm)						
	R _m		R _{p0,2}		Min.						
	MPa		MPa		t ≤ 0,5		0,5 ≤ t ≤ 1,5		t > 1,5		
O	115 – 165		Min. 45		12		14		16		
H41	130 – 180		Min. 80		7		8		9		
H42	140 – 195		Min. 95		5		5		6		
H44	165 – 215		Min. 135		3		3		4		
* 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)					
2,73	635 – 655	42	160	23,1	-	69500					
Properties and information's (3 high/good; 2 Middle; 1 Poor/bad)											
Resistance: Corrosion index, general: 3 Marine Atm. Corr index: 3 Hot workability: Extrusion: 1 Forging: 1 Cold formability: Cold formability general: 2 Deep drawing: - Bending: 2						Weldability: 2 Solderability: 3 Machinability Machinability index: 1 Anodizing: Decorative anodizing surface treatment: 3 Protective anodizing index: 3 Hard anodizing: 2 Color anodizing: 2					