

Datasheet: EN AW 5754 Extruded - Aluminium Alumeco ApS 25-03-2025					Internal alloy name: 5754 Chemical Symbol: AW – AlMg3 International alloy name: EN AW 5754 DIN-Werkstoff no.: 3.3535 Alloy type: None heat treatable alloy						
Main usage: - Molds - Machines and machines parts - Marine applications - Facade and building industry - Can be used in the food industry			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. Usages: EN 13195: Specifications for wrought products for marine applications EN 602: Chemical composition of semi-finished products for the used for the fabrication of articles for use in contact with foodstuff Product standards: EN 755-1:2016: Aluminium and aluminium alloys – Extruded rod/bar, tube and profiles – Part 1: Technical conditions for inspection and delivery EN 755-2:2016: Aluminium and aluminium alloys – Extruded rod/bar, tube and profiles – Part 2: Mechanical properties. EN 755-3:2016: Aluminium and aluminium alloys – Chemical composition and form of wrought products – Part 3: Chemical composition and for of product								
Main properties: - Good machining abilities - High corrosion resistance - Good weld abilities											
Chemical composition in %: EN 573-3:2013											
Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Remarks	Others Max.	
Remainder	Max. 0,40	Max. 0,40	Max. 0,10	Max. 0,50	2,6 – 3,6	Max. 0,30	Max. 0,20	Max. 0,15	0,10 – 0,6 Mn+Cr	Each	Total
										0,05	0,15
Mechanical properties: EN 755-2:2016											
Temper	Dimensions Diameter		Tensile Stress R _m		Proof Stress R _{p0,2}		Elongation Min. %		Hardness HBW		
	mm		MPa		MPa		A _{50mm}		A		
	≤ 150		Min. 180		Min. 80		12		14		47
H112	150 < D ≤ 250		Min. 180		Min. 70		-		13		47
* 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)					
2,66	610 – 640	32,5	132	23,7	330 - 360	70500					
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: 2 Forging: 2 Cold formability: Cold formability general: 2 Deep drawing: 2 Bending: 2 – 3				Weldability TIG welding: 3 MIG welding: 3 Solderability Brazability index: 1 Solderability index: 1 Machinability Machinability index: 3				Anodizing: Decorative anodizing surface treatment: 1 Protective anodizing index: 3 Hard anodizing: 3 Color anodizing: 2 General Information: Decorative Anodizing can be a challenge due to the composition of the alloy.			