

Data Sheet: EN AW 5754 – Cast Milled Alumeco A/S					Internal alloy name: 5754 International alloy name : EN AW 5754 Chemical Symbol: EN AW – AlMg3 DIN-Werkstoff no.: 3.3535 Alloy type: Non heat treatable alloy					
Main usage: • Molds • Machines and machines parts • Marine applications • Application for bending • Facade and building industry • Can be used in the food industry		Main properties: • Good machining abilities • High corrosion resistance • Good weld abilities		Important norms and literature: EN 487 – Rolling ingots - specifications Usages: EN 13195: Specifications for wrought products for marine applications EN602- Wrought products - Chemical composition of semi-finished products for the used for the fabrication of articles for use in contact with foodstuff. Chemical composition: EN573-3: Chemical composition						
Chemical composition. EN573-3:2013										
Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Remarks	Other elements	
									Each	together
0,4	0,4	0,10	0,5	2,6-3,6	0,30	0,20	0,15	Mn + Cr 0.1 - 0.6	0,05	0,15
Typical mechanical properties (information only).										
Thickness range (mm)		Temper		Rm MPa	Rp0,2 MPa	A50 mm %	Hardness HB	Bend radius		
								180°	90°	
All		O3 - Cast and homogenized		Min. 180	Min. 72	Min. 10	Min. 50	N/A	N/A	
Physical properties:										
Density g/cm³	Solidification range °C		Electrical conductivity %IACS	Thermal conductivity W/m K		Thermal expansion (µm m ⁻¹ K ⁻¹)		Annealing temperature		E - modulus (N / mm²)
2,66	610 - 640		32,5	132		23,7		330 – 360 °c		70.500
Typical Alumeco products with this alloy • sheet and plates • 3/5 and 5/7 tread plate.										
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 (Depending on the temper)			Weldability TIG welding: 3 MIG welding: 3 Solderability Brazability index: 1 Solderability index: 1			Machinability Machinability index: 3 Tips on machinability: N/A.			Anodizing: Decorative anodizing surface treatment: 1 Protective anodizing index: 3 Hard anodizing: 3 Color anodizing: 2 General Information: Decorative Anodizing cannot be recommended due to the composition of the alloy and that it is cast, not rolled.	