

Data Sheet: EN AW 6060 - Profiles Alumeco A/S					Internal alloy name: 6060 International alloy name : EN AW 6060 Chemical Symbol: EN AW – AlMgSi DIN-Werkstoff no.: 3.3206 Alloy type: Heat treatable alloy						
Main usage: • Constructions • Anodizing in general • Automotive • Forgings • Marine and offshore		Main properties: • Very good atmospheric corrosion resistance • Very good workability • Decoration anodisation • Heat treatable alloys (Soft T4 temper)			Important norms and literature: Extrusion: EN755-1: Technical conditions for inspection and delivery EN755-2: Mechanical properties Series EN755-3 to EN755-9: Tolerances on dimensions and forms for different extrusions Chemical composition: EN573-3: Chemical composition Usages: EN 13195: Specifications for wrought products for marine applications EN 602: Usage for food industry						
Chemical composition. EN573-3:2009											
Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Remarks	Other elements Each together		
0,30-0,6	0,10-0,30	0,10	0,10	0,35-0,6	0,05	0,15	0,10	N/A	0,05	0,15	
Typical mechanical properties. EN755 - 2											
Product group Dimension (mm)		Temper		Rm MPa		Rp0,2 MPa		A %		Hardness* HB	
Rod/Bar ≤ 150		T4		Min. 120		Min. 60		16		50	
Rod/Bar ≤ 150		T6		Min. 190		Min. 150		8		70	
Rod/Bar ≤ 150		T66		Min. 215		Min. 160		8		75	
Tubes Wall thickness ≤ 15		T6		Min. 190		Min. 150		8		70	
Profiles Wall thickness ≤ 25		T4		Min. 120		Min. 60		16		50	
Profiles Wall thickness 3 < t ≤ 25		T6		Min. 170		Min. 140		8		70	
Profiles Wall thickness 3 < t ≤ 25		T66		Min. 195		Min. 150		8		75	
* Information values only;											
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	
2,70		645-658		54		209		23,4		300°C	
E - modulus (N / mm²)											
69.500											
Typical Alumeco products with this alloy • Bars in various dimensions and form • Angle profiles • Tubes • Profiles											
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: 3 Forging: 3 Cold formability: Cold formability general: 2 Deep drawing: 1 Bending: 2 – 3 (Depending on the temper)			Weldability TIG welding: 2 MIG welding: 2 Solderability Brazability index: 2 Solderability index: 2			Machinability Machinability index: 3 Tips on machinability:			Anodizing: Decorative anodizing surface treatment: 3 Protective anodizing index: 3 Hard anodizing: 3 Color anodizing: 3 General Information:		