

Data Sheet:					Internal alloy name: 6060					
EN AW 6060 - Profiles					International alloy name : EN AW 6060 Chemical Symbol: EN AW – AlMgSi					
Alumeco A/S					DIN-Werkstoff no.: 3.3206 Alloy type: Heat treatable alloy					
Main usage:		Main properties:			Important norms and literature:					
• Constructions • Anodizing in general • Automotive • Forgings • Marine and offshore		• Very good atmospheric corrosion resistance • Very good workability • Decoration anodisation • Heat treatable alloys (Soft T4 temper)			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)										
<u>Resistance:</u> Corrosion index, general: 3 Marine Atm. Corr index: 3 <u>Hot workability:</u> Extrusion: 3 Forging: 3 <u>Cold formability:</u> Cold formability general: 2 Deep drawing: 1 Bending: 2 – 3 (Depending on the temper)			<u>Weldability</u> TIG welding: 2 MIG welding: 2 <u>Solderability</u> Brazability index: 2 Solderability index: 2			<u>Machinability</u> Machinability index: 3 <u>Tips on machinability:</u>			<u>Anodizing:</u> Decorative anodizing surface treatment: 3 Protective anodizing index: 3 Hard anodizing: 3 Color anodizing: 3 <u>General Information:</u>	