

Data Sheet:					Internal alloy name: 6060					
EN AW 6060 - Profiles					International alloy name : EN AW 6060					
Alumeco A/S					Chemical Symbol: EN AW – AlMgSi					
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 Usages: EN 13195: Specifications for wrought products for marine applications EN 602: Usage for food industry Chemical composition: EN573-3: Chemical composition					
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		Temper		Rm		Rp0,2		A		Hardness*
Dimension (mm)				MPa		MPa		%		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		T6		Min. 190		Min. 150		8		70
Wall thickness ≤ 15										
Profiles		T4		Min. 120		Min. 60		16		50
Wall thickness ≤ 25										
Profiles		T6		Min. 170		Min. 140		8		70
Wall thickness 3 < t ≤ 25										
Profiles		T66		Min. 195		Min. 150		8		75
Wall thickness 3 < t ≤ 25										
* Information values only;										
Physical properties:										
Density		Solidification		Electrical		Thermal		Thermal		E - modulus
g/cm³		range		conductivity		conductivity		expansion		(N / mm²)
		°C		%IACS		W/m K		(µm m⁻¹ K⁻¹)		
2,70		645-658		54		209		23,4		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:			Weldability			Machinability			Anodizing:	
Corrosion index, general: 3			TIG welding: 2			Machinability index: 3			Decorative anodizing surface treatment: 3	
Marine Atm. Corr index: 3			MIG welding: 2						Protective anodizing index: 3	
Hot workability:			Solderability			Tips on machinability:			Hard anodizing: 3	
Extrusion: 3			Brazability index: 2						Color anodizing: 3	
Forging: 3			Solderability index: 2						General Information:	
Cold formability:										
Cold formability general: 2										
Deep drawing: 1										
Bending: 2 – 3 (Depending on the temper)										