

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: <ul style="list-style-type: none"> • Constructions • Anodizing in general • Automotive • Forgings • Marine and offshore 	Main properties: <ul style="list-style-type: none"> • 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/cm ³	Solidification range °C	Electrical conductivity %IACS	Thermal conductivity W/m K	Thermal expansion (µm m ⁻¹ K ⁻¹)	Annealing temperature	E - modulus (N / mm ²)
2,70	645-658	54	209	23,4	300°C	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:
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