

Data Sheet: EN AW 6026 – Rods and bars Alumeco A/S						Internal alloy name: 6026 International alloy name : EN AW 6026 Chemical Symbol: EN AW – AlSi1MgMn DIN-Werkstoff no.: N/A Alloy type: Heat treatable alloy				
Main usage: • Machining • Machinery • Forgings • Tools • Heavy duty structures • Hydraulics systems • Marine and offshore		Main properties: • Very good atmospheric corrosion resistance • Very good workability • Good machinability • 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 Cold drawn profiles: EN754-1: Technical conditions for inspection and delivery EN754-2: Mechanical properties Series EN754-3 to EN754-8: Tolerances on dimensions and forms for different profiles						
Chemical composition. EN573-3:2009										
Si	Fe	Cu	Mn	Mg	Cr	Pb	Bi	Remarks	Other elements	
									Each	together
0,60-1,40	0,70	0,20-0,50	0,20-1,0	0,60-1,2	0,30	0,40	0,50-1,5		0,05	0,15
Mechanical properties. EN755 – 2 (Extruded bars)										
Thickness range (mm)		Temper		Rm MPa		Rp _{0,2} MPa		A %	Hardness* HB	
D ≤ 140		T6		Min. 370		Min. 300		8	95	
140 < D ≤ 200		T6		Min. 340		Min. 250		8	90	
200 < D ≤ 250		T6		Min. 300		Min. 200		8	90	
Mechanical properties. EN754 – 2 (Drawn bars)										
Thickness range (mm)		Temper		Rm MPa		Rp _{0,2} MPa		A %	Hardness* HB	
D ≤ 80		T6		Min. 370		Min. 300		8	95	
D ≤ 80		T8		Min. 345		Min. 315		4	95	
D ≤ 80		T9		Min. 360		Min. 330		4	95	
* 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	E - modulus (N / mm²)				
2,72	575-650	≈44	172	23,4	350°C	69.000				
Typical Alumeco products with this alloy • Bars in various dimensions and form										
Properties and information's (3 high/good; 2 Middle; 1 Poor/bad)										
Resistance: Corrosion index, general: 3 Marine Atm. Corr index: 2 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: 2 Protective anodizing index: 3 Hard anodizing: 3 Color anodizing: 2 General Information: Remove minimum 1 mm surface or more for decorative anodization.			