

Data Sheet:					Internal alloy name: 6026					
EN AW 6026 LF – Rods and bars					International alloy name: EN AW 6026					
Alumeco A/S					Chemical Symbol: EN AW – AISi1MgMn					
					DIN-Werkstoff no.: N/A					
					Alloy type: Heat treatable alloy					
Main usage:		Main properties:			Important norms and literature:					
• Machining • Machinery • Forgings • Tools • Heavy duty structures • Hydraulics systems • Marine and offshore		• Very good atmospheric corrosion resistance • Very good workability • Good machinability • 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 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 Compliance with ROHS and REACH directive					
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	0,10	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)										
<u>Resistance:</u> Corrosion index, general: 3 Marine Atm. Corr index: 2 <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: 2 Protective anodizing index: 3 Hard anodizing: 3 Color anodizing: 2 <u>General Information:</u> Remove minimum 1 mm surface or more for decorative anodization.			