

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 – AlSi1MgMn						
		DIN-Werkstoff no.:		N/A						
		Alloy type:		Heat treatable alloy						
<b>Main usage:</b> <ul style="list-style-type: none"> <li>Machining</li> <li>Machinery</li> <li>Forgings</li> <li>Tools</li> <li>Heavy duty structures</li> <li>Hydraulics systems</li> <li>Marine and offshore</li> </ul>		<b>Main properties:</b> <ul style="list-style-type: none"> <li>Very good atmospheric corrosion resistance</li> <li>Very good workability</li> <li>Good machinability</li> <li>Heat treatable alloys (Soft T4 temper)</li> </ul>		<b>Important norms and literature:</b> <p>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</p> <p>Chemical composition: EN573-3: Chemical composition</p> <p>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</p> <p>Compliance with ROHS and REACH directive</p>						
<b>Chemical composition. EN573-3:2009</b>										
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
<b>Mechanical properties. EN755 – 2 (Extruded bars)</b>										
Thickness range (mm)		Temper		Rm MPa		Rp <sub>0,2</sub> 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
<b>Mechanical properties. EN754 – 2 (Drawn bars)</b>										
Thickness range (mm)		Temper		Rm MPa		Rp <sub>0,2</sub> 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;										
<b>Physical properties:</b>										
Density g/cm <sup>3</sup>	Solidification range °C	Electrical conductivity %IACS	Thermal conductivity W/m K	Thermal expansion (µm m <sup>-1</sup> K <sup>-1</sup> )	Annealing temperature	E - modulus (N / mm <sup>2</sup> )				
2,72	575-650	≈44	172	23,4	350°C	69.000				
<b>Typical Alumeco products with this alloy</b>										
<ul style="list-style-type: none"> <li>Bars in various dimensions and form</li> </ul>										
<b>Properties and information's (3 high/good; 2 Middle; 1 Poor/bad)</b>										
<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.				