

<b>Datasheet:</b>  <b>EN AW 6101A</b> <b>Rectangular Bar - Aluminium</b>  <b>Alumeco ApS</b> 11-02-2025		<b>Internal alloy name:</b> 6101A  <b>Chemical Symbol:</b> AW-AISiMg(A) <b>International alloy name:</b> EN AW-6101A  <b>DIN-Werkstoff no.:</b> 3.3207 <b>Alloy type:</b> Heat treatable alloy							
<b>Main usage:</b> <ul style="list-style-type: none"> <li>Electrical busbar</li> <li>Heatsinks</li> <li>Forgings</li> <li>Conductors/connectors</li> </ul>		<b>Important norms and literature:</b>  <b>General Standards:</b> EN 573-3:2013: Aluminium and aluminium alloys – Chemical composition and form of wrought products – Part 3: Chemical composition and form of products.  <b>Geometric Tolerance:</b> EN 755-5: Aluminium and aluminium alloys – Extruded rod/bar, tube and profiles – Part 5: Rectangular bars, tolerances on dimensions and form							
<b>Main properties:</b> <ul style="list-style-type: none"> <li>Relative high conductivity</li> <li>Very good atmospheric corrosion resistance</li> <li>Very good workability</li> <li>Good machinability</li> </ul>		<b>Product standards:</b> EN 755-2:2016: Aluminium and aluminium alloys – Extruded rod/bar, tube and profiles – Part 2: Mechanical properties.							
<b>Chemical composition in %: EN 573-3:2013</b>									
<b>Al</b>	<b>Si</b>	<b>Fe</b>	<b>Cu</b>	<b>Mg</b>	<b>Others</b>				
Remainder	0,30 – 0,7	Max. 0,40	Max. 0,05	0,40 – 0,90	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Each</th> <th style="width: 50%;">Total</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">0,03</td> <td style="text-align: center;">0,10</td> </tr> </tbody> </table>	Each	Total	0,03	0,10
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0,03	0,10								
<b>Mechanical properties: EN 755-2</b>									
<b>Temper</b>	<b>Dimensions</b> Width mm	<b>R<sub>m</sub></b> MPa	<b>R<sub>p0,2</sub></b> MPa	<b>A %</b> Min.	<b>Hardness*</b> HBW				
T6	≤ 150	Min. 200	Min. 170	10	70				
* Information values only;									
<b>Physical properties:</b>									
<b>Density</b>	<b>Solidification range</b>	<b>Electrical conductivity</b>	<b>Thermal conductivity</b>	<b>Thermal expansion</b>	<b>Annealing temperature</b>	<b>E - modulus</b>			
g/cm <sup>3</sup>	°C	%IACS	W/m K	(µm m <sup>-1</sup> K <sup>-1</sup> )	°C	(N / mm <sup>2</sup> )			
2,70	645 – 658	52	210 – 220	23,4	350	69.500			
<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: 3  <u>Hot workability:</u> Extrusion: 3 Forging: 3  <u>Cold formability:</u> Cold formability general: 2 Deep drawing: 1 Bending: 2		<u>Weldability:</u> TIG welding: 2 MIG welding: 2  <u>Solderability:</u> Brazability index: 2 Solderability index: 2		<u>Machinability:</u> Machinability index: 2  <u>Anodizing:</u> Decorative anodizing surface treatment: 2 Protective anodizing index: 3 Hard anodizing: 3 Color anodizing: 2					