

Data Sheet EN AW 3003 – Rolled products Alumeco A/S					Internal alloy name: 3003 International alloy name: EN AW 3003 Chemical Symbol: EN AW – Al Mn1Cu DIN-Werkstoff no.: 3.0517 Alloy type: Non heat treatable alloy																																						
Main usage • Facade panels • Covers • Deep-drawn parts • Pre-painted coils/sheets		Main properties • Very good atmospheric corrosion resistance • Very good workability • Very good weld ability • Low mechanical properties			Important norms and literature Cold rolled products: EN 485-1: Technical conditions for inspection and delivery EN 485-2: Mechanical properties EN 485-4: Tolerances on dimensions and form cold rolled products Chemical composition: EN 573-3: Chemical composition																																						
Chemical composition (%) EN 573-3 <table><tr><td>Si</td><td>Fe</td><td>Cu</td><td>Mn</td><td>Mg</td><td>Cr</td><td>Zn</td><td>Ti</td><td colspan="2">Other elements</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>Each</td><td>together</td></tr><tr><td>0.6</td><td>0.7</td><td>0.05 – 0.20</td><td>1.0 – 1.5</td><td>-</td><td>-</td><td>0.10</td><td>0.05</td><td>0.05</td><td>0.15</td></tr></table>										Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Other elements										Each	together	0.6	0.7	0.05 – 0.20	1.0 – 1.5	-	-	0.10	0.05	0.05	0.15				
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Typical Alumeco products with this alloy • Coils in width of 1000 mm in thicknesses 0,63; 0,75; 0,88; 1,00 mm. • Materials are typically Continuously Cast (CC) materials																																											
Properties and information (3 high/good; 2 medium; 1 poor/bad) <table><tr><td> Resistance Corrosion index, general: 3 Marine atm. corr. index: 3 Hot workability Extrusion: 3 Forging: 3 Cold formability Cold formability general: 3 Deep drawing: 2 Bending: 3 Be aware that the formability categorizations depend on the temper of the alloy. </td><td> Weldability TIG welding: 3 MIG welding: 3 Solderability 3 </td><td> Machinability Machinability index: 1 Tips regarding machining Tools for aluminum processing: High-usable cutting speeds, possibly> 2000 m / min. </td><td> Anodizing Decorative anodizing surface treatment: 3 (CC cast materials 1) Protective anodizing index: 3 Hard anodizing: 3 Color anodizing: 3 (CC cast materials 1) General information Decorative anodizing cannot be recommended for continuously cast (CC) materials </td></tr></table>										Resistance Corrosion index, general: 3 Marine atm. corr. index: 3 Hot workability Extrusion: 3 Forging: 3 Cold formability Cold formability general: 3 Deep drawing: 2 Bending: 3 Be aware that the formability categorizations depend on the temper of the alloy.	Weldability TIG welding: 3 MIG welding: 3 Solderability 3	Machinability Machinability index: 1 Tips regarding machining Tools for aluminum processing: High-usable cutting speeds, possibly> 2000 m / min.	Anodizing Decorative anodizing surface treatment: 3 (CC cast materials 1) Protective anodizing index: 3 Hard anodizing: 3 Color anodizing: 3 (CC cast materials 1) General information Decorative anodizing cannot be recommended for continuously cast (CC) materials																														
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