

Data Sheet					Internal alloy name: 2007																																					
EN AW 2007 – Rods and bars					International alloy name: EN AW 2007																																					
Alumeco A/S					Chemical Symbol: EN AW – AlCu4PbMgMn																																					
Main usage					DIN-Werkstoff no.: 3.1645																																					
Main properties					Alloy type: Heat treatable alloy																																					
- Forming - Mechanical Engineering - Tools					Important norms and literature Extruded: EN 755-1: Technical conditions for inspection and delivery EN 755-2: Mechanical properties EN 755-3: Tolerances on dimensions and form round bars EN 755-6 Tolerances on dimensions and form hexagonal bars Cold drawn: EN 754-1: Technical conditions for inspection and delivery EN 754-2: Mechanical properties EN 754-3: Tolerances on dimensions and form round bars EN 754-6 Tolerances on dimensions and form hexagonal bars																																					
Chemical composition (%) EN 573-3 <table><tr><td>Si</td><td>Fe</td><td>Cu</td><td>Mn</td><td>Mg</td><td>Zn</td><td>Bi</td><td>Pb</td><td>Sn</td><td colspan="2">Other elements</td></tr><tr><td>0.8</td><td>0.8</td><td>3.3-4.6</td><td>0.50-1.0</td><td>0.40-1.8</td><td>0.8</td><td>0.20</td><td>0.8-1.5</td><td>0.20</td><td>Each</td><td>together</td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>0.10</td><td>0.30</td></tr></table>					Si	Fe	Cu	Mn	Mg	Zn	Bi	Pb	Sn	Other elements		0.8	0.8	3.3-4.6	0.50-1.0	0.40-1.8	0.8	0.20	0.8-1.5	0.20	Each	together										0.10	0.30					
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Typical Alumeco products with this alloy - Round bars with the diameter from 10 – 100 mm - Diameter below 50 mm is typically extruded / drawn and above is it only extruded - Not standard, but can be found as sheets with the thickness 1 – 10 mm																																										
Properties and information (3 high/good; 2 medium; 1 poor/bad) <table><tr><td> Resistance Corrosion index, general: 1 Marine atm. corr. index: 1 Hot workability Extrusion: 2 Forging: 2 Cold formability Cold formability general: 1 Deep drawing: 1 Bending: 1 </td><td> Weldability TIG welding: 1 MIG welding: 1 Solderability 1 </td><td> Machinability Machinability index: 3 Tips regarding machining Tension/deformation is possible to occur </td><td> Anodizing Decorative anodizing surface treatment: 1 Protective anodizing index: 2 Hard anodizing: 2 Color anodizing: 1 </td></tr></table>											Resistance Corrosion index, general: 1 Marine atm. corr. index: 1 Hot workability Extrusion: 2 Forging: 2 Cold formability Cold formability general: 1 Deep drawing: 1 Bending: 1	Weldability TIG welding: 1 MIG welding: 1 Solderability 1	Machinability Machinability index: 3 Tips regarding machining Tension/deformation is possible to occur	Anodizing Decorative anodizing surface treatment: 1 Protective anodizing index: 2 Hard anodizing: 2 Color anodizing: 1																												
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