

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				
<ul style="list-style-type: none">FormingMechanical EngineeringTools					<p>Important norms and literature</p> <p>Extruded:</p> <p>EN 755-1: Technical conditions for inspection and delivery</p> <p>EN 755-2: Mechanical properties</p> <p>EN 755-3: Tolerances on dimensions and form round bars</p> <p>EN 755-6 Tolerances on dimensions and form hexagonal bars</p> <p>Cold drawn:</p> <p>EN 754-1: Technical conditions for inspection and delivery</p> <p>EN 754-2: Mechanical properties</p> <p>EN 754-3: Tolerances on dimensions and form round bars</p> <p>EN 754-6 Tolerances on dimensions and form hexagonal bars</p> <p>Chemical composition:</p> <p>EN 573-3: Chemical composition</p> <p>Rolled products:</p> <p>EN 485-1: Technical conditions for inspection and delivery</p> <p>EN 485-2: Mechanical properties</p> <p>EN 485-3: Tolerances on dimensions and form hot rolled products</p> <p>EN 485-4: Tolerances on dimensions and form cold rolled products</p>				
Chemical composition (%) EN 573-3									
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
0.8	0.8	3.3-4.6	0.50-1.0	0.40-1.8	0.8	0.20	0.8-1.5	0.20	0.10 0.30
Typical mechanical properties EN 754-2 - Drawn									
Diameter range (mm)		Temper		Rm MPa		Rp0,2 MPa		A %	
30 up to 80		T3		Min. 340		Min. 220		6	
30 up to 80		T3		Min. 340		Min. 220		6	
Typical mechanical properties EN 755-2 - Extruded									
≤ 80		T4		Min. 370		Min. 250		8	
80 < D ≤ 200		T4		Min. 340		Min. 220		8	
* 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 °C	E - modulus (N / mm²)			
2.85	540 - 645	34	130 - 150	24	350-400	73,000			
Typical Alumeco products with this alloy									
<ul style="list-style-type: none">Round bars with the diameter from 10 – 100 mmDiameter below 50 mm is typically extruded / drawn and above is it only extrudedNot standard, but can be found as sheets with the thickness 1 – 10 mm									
Properties and information (3 high/good; 2 medium; 1 poor/bad)									
Resistance		Weldability		Machinability		Anodizing			
Corrosion index, general: 1		TIG welding: 1		Machinability index: 3		Decorative anodizing surface treatment: 1			
Marine atm. corr. index: 1		MIG welding: 1				Protective anodizing index: 2			
Hot workability		Solderability		Tips regarding machining		Hard anodizing: 2			
Extrusion: 2		1		Tension/deformation is possible to occur		Color anodizing: 1			
Forging: 2									
Cold formability									
Cold formability general: 1									
Deep drawing: 1									
Bending: 1									