

Data Sheet						Internal alloy name: 7075				
EN AW 7075 – Rolled products						International alloy name: EN AW 7075 Chemical Symbol: EN AW – Al Zn5,5MgCu				
Alumeco A/S						DIN-Werkstoff no.: 3.4365 Alloy type: Heat treatable alloy				
Main usage		Main properties				Important norms and literature				
• Machining • Machinery • Forgings • Tools • Heavy duty structures • Hydraulics systems		• Very good workability • Good machinability • High strength				Rolled products: EN 485-1: Technical conditions for inspection and delivery EN 485-2: Mechanical properties EN 485-3: Tolerances on dimensions and form hot rolled products EN 485-4: Tolerances on dimensions and form cold rolled products Chemical composition: EN 573-3: Chemical composition				
Chemical composition (%) EN 573-3										
Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Remarks	Other elements	
									Each	together
0.40	0.50	1.2-2.0	0.30	2.1-2.9	0.18-0.28	5.1-6.1	0.20	Max. 0.25 Zr + Ti	0.05	0.15
Typical mechanical properties EN 485 – 2										
Thickness range (mm)		Temper		Rm MPa	Rp0,2 MPa	A50 %	Hardness* HB	Bend radius*		
								180°	90°	
1.5 up to 3.0		T651		Min. 540	Min. 470	7	161		6.5t	
3.0 up to 6.0		T651		Min. 545	Min. 475	8	163		8.0t	
6.0 up to 12.5		T651		Min. 540	Min. 460	8	160		12.0t	
25 up to 50		T651		Min. 530	Min. 460	5 (A%)	158		-	
100 up to 120		T651		Min. 410	Min. 300	2 (A%)	119		-	
200 up to 300		T651		Min. 360	Min. 220	1 (A%)	-		-	
* 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)				
2.81	475-635	39.5	155	23.5	-	72,000				
Typical Alumeco products with this alloy										
• Rolled materials in various dimensions and form										
Properties and information (3 high/good; 2 medium; 1 poor/bad)										
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			Anodizing: Decorative anodizing surface treatment: 1 Protective anodizing index: 2 Hard anodizing: 2 Color anodizing: 1	