

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			Roller 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*	
1.5 up to 3.0		T651		Min. 540	Min. 470	7	161	180°	90°
3.0 up to 6.0		T651		Min. 545	Min. 475	8	163		6.5t 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)									
<u>Resistance:</u> Corrosion index, general: 1 Marine atm. corr. index: 1 <u>Hot workability:</u> Extrusion: 2 Forging: 2 <u>Cold formability:</u> Cold formability general: 1 Deep drawing: 1 Bending: 1		<u>Weldability</u> TIG welding: 1 MIG welding: 1 <u>Solderability</u> 1		<u>Machinability</u> Machinability index: 3		<u>Anodizing:</u> Decorative anodizing surface treatment: 1 Protective anodizing index: 2 Hard anodizing: 2 Color anodizing: 1			