

		Dat	a Sheet										
							Internal alloy name:			7075			
EN AW 7075 – Rods and bars							International alloy name: Chemical Symbol:			EN AW 7075 EN AW – Al Zn5,5MgCu			
Alumeco A/S							DIN-Werkstoff no.: Alloy type:			3.4365 Heat treatable alloy			
Main usage M				in properties	Imp	Important norms and literature							
Machining Machinery Forgings Tools Heavy duty structures Hydraulics systems				ery good workabili ood machinability ligh strength	EN inspe EN 79 Serie on d	Extrusion: EN 755-1: Technical conditions for inspection and delivery EN 755-2: Mechanical properties Series EN 755-3 to EN 755-8: Tolerances on dimensions and forms for different extrusions			Cold drawn: EN 754-1: Technical conditions for inspection and delivery EN 754-2: Mechanical properties Series EN 754-3 to EN 754-8: Tolerances on dimensions and forms for different extrusions				
						Chemical composition: EN 573-3: Chemical composition							
Chemica	l comp	osition (%)	EN 573	-3									
Si	Fe Cu		Mn			7	Zn		Remarks		Other elements Each together		
0.40	0.50	1.2-2.0	0.30	2.1-2.9	0.18-0.2	28 5.1	-6.1	0.20	Max. 0.2	5 Zr + Ti	0.05	0.15	
Mechanic	cal pro	perties EN	754 – 2	(Drawn bars))								
Diamete	r range		Temper		Rm		Rp _{0,2}		A %		Hardness*		
(mm) ≤ 80		Т	6	MPa Min. 540			MPa Min. 485		% Min. 7		НВ 150		
Mechanio	cal nro	nerties FN	755 – 2	(Extruded ba	ire)								
≤ 25			ies EN 755 – 2 (Extrude		Min. 490		Min. 420		Min. 7		133		
25 < D ≤ 100			6	Min. 470		Min. 400			Min. 7		133		
100 < D ≤ 150 150 < D ≤ 200			T6 T6		Min. 470		Min. 400		Min. 7		133		
150 < L) ≤ 200		6	Min. 470		Mil	Min. 400		Min. 7		133		
		ical proper	ties. No	t defined by				rs)					
200 < D ≤ 230			T6		Min. 440		Min. 360		Min. 6		-		
	230 < D ≤ 300 300 < D ≤ 360		<u>6</u> 6	Min. 420 Min. 400		Min. 320 Min. 260			Min. 6 Min. 5		-		
360 < D ≤ 500			6	Min. 330		Min. 200			Min. 4		-		
* Information va	lues only		<u> </u>	1 111111			200	<u> </u>	······· -	l			
Physical													
Density S		Solidificat range	-	Electrical Ther conductivity %IACS W/n			ivity expan		nsion temp		ealing E - modulus erature (N / mm²)		
2.81		475-63	475-635		39.5 15		5 23.		.5 -		72,000		
٠.		o products		is alloy									
Propertie	e and i	information) (3 high/ga	od; 2 medium; 1 pe	oor/bad)								
•			. (5 mgm/gc	-	ooi/sauj								
Resistance Corrosion index, general: 1 Marine atm. corr. index: 1				Weldability TIG welding: 1 MIG welding: 1		Machinability Machinability index: 3			Anodizing Decorative anodizing surface treatment: 1 Protective anodizing index: 2 Hard anodizing: 2				
Hot workability Extrusion: 2 Forging: 2				Solderability 1					Color anodizing: 1				
Cold formability Cold formability general: 1 Deep drawing: 1 Bending: 2													