

		D.	ata Sh	not .												
Data Sheet EN AW 2007 – Rods and bars Alumeco A/S Main usage Main properties								Inter	nal alloy nar	me:		2007	2007			
								International alloy name: Chemical Symbol: DIN-Werkstoff no.: Alloy type: Important norms and literature					EN AW 2007 EN AW – AlCu4PbMgMn 3.1645 Heat treatable alloy			
Forming Mechanical Engineering Tools				High strength material Good machinability Low corrosion resistance NOT RoHS compliable			E E E E E E E E E E E E E E E E E E E	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 co EN 573-3: C Rolled prod EN 485-1: inspection a EN 485-2: N EN 485-3: T form hot roi EN 485-4: T form cold ro	Chemical composition: EN 573-3: Chemical composition 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			
			1													
Chemical con Si	Si Fe		ition (%) EN 5		М	g	Zn		Bi)	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	0.10		ether 0.30	
Typical mech		al prop	erties													
Diameter range			Temper			Rm			Rp _{0,2}		A %		Hardness*			
(mm) 30 up to 80			Т3		MPa Min. 340)		MPa Min. 220		6		HB 95			
•		_						1		-		-				
i ypicai mechanicai p ≤ 80		ıı prop	operties EN 755-2 - T4			Min. 370			Min. 250			8				
80 < D ≤ 200 * Information values only		T4			Min. 340)		Min. 220		8		95			
Physical prop		c														
		olidification		condu	Electrical onductivity co		Thermal conductivity W/m K		Thermal expansio (µm m ⁻¹ K ⁻¹)		ion	Annealing temperature °C	E - modulus (N / mm²)			
2.85		540 - 645					0 - 150		24			350-400		73,000		
 Diameter 	bars wi er belov ndard, l	th the diar v 50 mm is out can be	neter fron s typically found as	n 10 – 100 m extruded / sheets with	nm drawn and a	ess 1 – 10		uded								
Resistance Corrosion index, general: 1 Marine atm. corr. index: 1			Weldability TIG welding: 1 MIG welding: 1				nability nability in	ndex: 3			De	Anodizing Decorative anodizing surface treatment: 1 Protective anodizing index: 2				
Hot workability Extrusion: 2 Forging: 2			Solderability					a machining mation is possible to occur			Ha	Hard anodizing: 2 Color anodizing: 1				
Cold formability Cold formability general: 1 Deep drawing: 1 Bending: 1																