

Data Sheet								nternal alloy na	me:		2011		
EN AW 2011 – Rods and bars Alumeco A/S								nternational allo Chemical Symbo	•		EN AW 2011 EN AW – AlCu6BiPb		
							_	IN-Werkstoff no	o.:		3.1655 Heat treatable alloy		
Main usage Main prop								Alloy type: Important norms and literature			Heat treatable alloy		
Forming Forging Mechanical Engineering Tools				High strength material Good machinability Low corrosion resistance			E irr E C C E irr 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 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		
Chemical co	ompos	ition (%	6) EN 5	573-3									
Si	i Fe Cu		u	Mn		/lg Zn		Bi	Bi Pb		Other e	elements together	
0.40	0.7	5.0	-6.0	0			0.30	0.20-0.6	20-0.6 0.2-0.		0.05	0.15	
Typical mechanical properties EN 754-2 - Drawn													
Diameter range (mm)			Temper		Rm MPa			Rp _{0,2} MPa		Α %		Hardness* HB	
≤ 80			Т8		Min. 370)		Min. 270		8	115	
Typical med	chanica	al nrone	erties l	FN 755-2) - Fytri	ıded							
≤ 75		 	T6			/lin. 310)	Min. 230		8		110	
75 < D < 150 * Information values only			T6		Min. 295		i	Min. 195			6	110	
Dhysical pr	- n - r4i -												
Physical properties Density Solidification Electrical Thermal Expansion									n A	nnealing	E - modulus		
g/cm³		range °C		condu	conductivity %IACS		luctivity V/m K				nperature °C	(N / mm²)	
2.84	2.84 5				5.5		172	2	23		50-400	72,500	
Typical Alumeco products with this alloy Round bars with the diameter from 10 – 100 mm Diameter below 50 mm is typically extruded / drawn and above is it only extruded Not 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 Corrosion index, general: 1 Marine atm. corr. index: 1			TIG we	Weldability TIG welding: 1 MIG welding: 1			nability nability inc	эх: 3		Anodizing Decorative anodizing surface treatment: 1 Protective anodizing index: 2 Hard anodizing: 2			
Hot workability Extrusion: 2 Forging: 2			<u>Solderability</u> 1			Tips regarding m Tension/deforma		nachining ation is possible to occur		Color anodizing: 1			
Cold formability Cold formability general: 1 Deep drawing: 1 Bending: 1													