

		Data	Sheet			Internal alloy name:			32		
EN AW 6082 - Profiles Alumeco A/S						International alloy name: Chemical Symbol: DIN-Werkstoff no.: Alloy type:			EN AW 6082 EN AW – AISi1MgMn 3.2315 Heat treatable alloy		
											Main usag
Machinery Heavy duty Marine and			resistan Very god Good ma Heat tr	arine applications							
Chemica Si	l composi Fe	tion EN 5	73-3:2009 Mn	Mg	Cr	Zn	Ti	<u> </u>	Other el	ements	
									Each together		
0.7-1.3	0.5	0.1	0.4-1.0	0.6-1.2	0.25	0.2	0.1	0.05		0.15	
Typical n	nechanica	l properti	es EN 755 -	- 2 (Extrude	ed profile	s)					
Open profile Ten			nper	per Rm		Rp _{0,2}		A %		Hardness*	
thickness (mm) ≤ 25		-	T4		MPa Min 205		MPa Min 110			НВ 70	
≤ 5		14 T6		Min. 205 Min. 290		Min. 110 Min. 250		14 8		95	
5 < t ≤ 25		T6		Min. 310		Min. 2		10		95	
Densi	propertie	s olidificatio range °C		trical	Thermal		hermal	Anneal	_	E - modulus	
g/cm ^s	g/cm³			uctivity conductiv		ity expansion (µm m ⁻¹ K ⁻¹)		temperatu	ure °C	(N / mm²)	
	2.70 575-650 Typical Alumeco products wi			4	172		23.1	350-4	00	70,000	
• 1	Profiles in vario	ous dimension	s and form								
	es and into		3 high/good; 2 n	nedium; 1 poor/ba	ad) chinability			Anadizina			
Corrosion index, general: 3 Marine atm. corr. index: 3 M					<u>IITY</u> lity index: 3		Anodizing Decorative anodizing surface treatment: 2 Protective anodizing index: 3 Hard anodizing: 3				
Hot workability Extrusion: 3 Forging: 3		<u>Sc</u>	lderabilit <u>y</u>					Color anodizing: 2 General information			
Cold formability Cold formability general: 2 Deep drawing: 1 Bending: 2 – 3 (Depending on the temper)								Decorative a	anodizing	can be a challenge in the material.	