

EN AW-6262A



aluminium bozen

ALUMINIUM BOZEN - Extrusion Aluminum Alloys

According to 2011/65/EU (RoHS), 2018/740/EU (RoHS II) and 2000/53/CE (ELV)

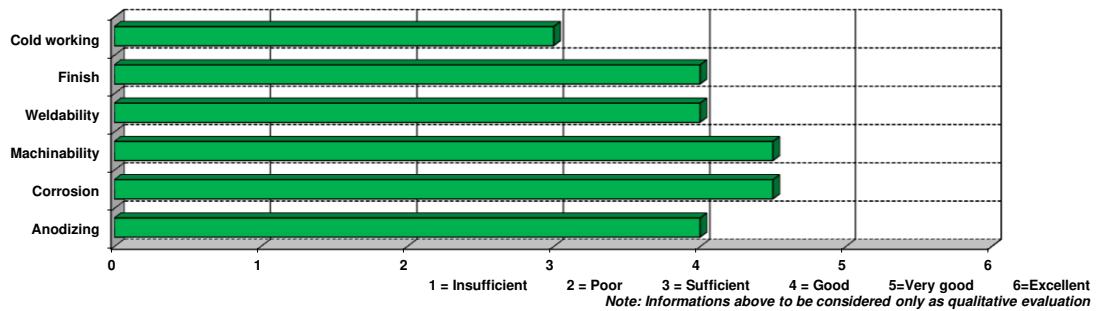
Alloy description

Al-Mg1-Si-Bi aluminium alloy fits for applications requiring improved machinability. One of the few alloys developed specifically for machining applications including screw machine and CNC machine products. Suitability to hard, protective and decorative anodizing.

Main features:

- good mechanical characteristics
- good machinability
- good corrosion resistance

Alloy technological properties - T6 Temper



Chemical composition in accordance with EN 573-3	
Si %	0,4 - 0,8
Fe %	0,70 max
Cu %	0,15 - 0,40
Mn %	0,15 max
Mg %	0,80 - 1,20
Cr %	0,04 - 0,14
Ti %	0,10 max
Zn %	0,25 max
Bi %	0,4-0,9
Sn %	0,4-1,0
Others, each %	0,05
Others, total %	0,15
Al %	Remaining

Typical mechanical properties in accordance with EN 755-2								
Temper	Product	Dim [mm]	Rm [MPa]		Rp _{0.2} [MPa]		A ₅ %	HB Typical
			min	max	min	max		
T6	Rod/Bar	≤ 220	260	-	240	-	10	-
	Profile (t)	t ≤ 25	260	-	240	-	10	-

(1): t = wall thickness.
Other conditions may be available and agreed upon Customer request.
The values given above represent typical figures and may be different depending on product dimension.

Physical properties		
Density	$\frac{\text{kg}}{\text{dm}^3}$	2,72
Modulus of elasticity	Mpa	69.000
Heat capacity (at 20°)	$\frac{\text{W}}{\text{m}^3\text{K}}$	172
Coeff. of thermal exp.	$\frac{1}{^\circ\text{C}}$	23,4
Conductivity (at 20°)	$\frac{\text{MS}}{\text{m}}$	26,3

Note: Aluminium Bozen does not guarantee or accept any liability for the accuracy of the data provided above, even though is making every effort to ensure their consistency.

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