

EN AW-6101B



aluminium bozen

ALUMINIUM BOZEN - Extrusion Aluminum Alloys

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

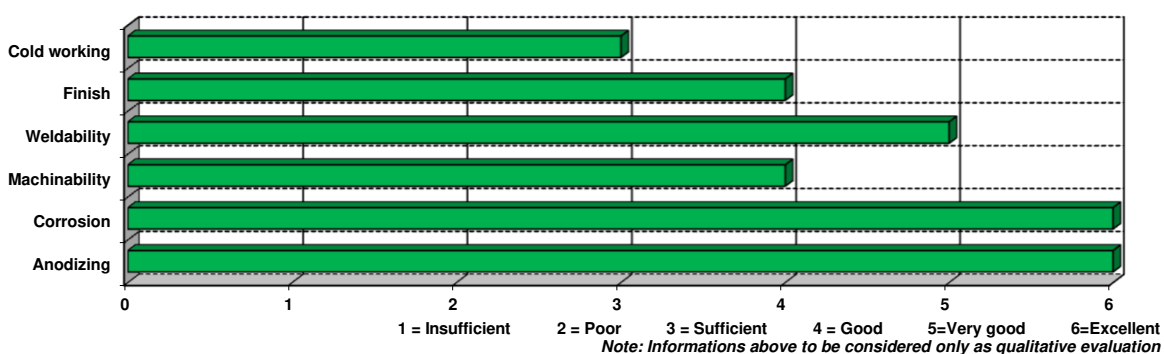
Alloy description

Alloy 6101B (Al MgSi(B)) is a medium strength alloy mainly designed for applications where a high electrical conductivity is required. Typical applications are busbars and other electrical conductor and heat sinks.

Main features:

- medium strength
- medium machinability
- good corrosion resistance and weldability

Alloy technological properties - T6 Temper



Chemical composition in accordance with EN 573-3	
Si %	0,30 - 0,6
Fe %	0,10 - 0,30
Cu %	0,05 max
Mn %	0,05 max
Mg %	0,35 - 0,6
Cr %	-
Ti %	-
Zn %	0,10 max
Others, each %	0,03
Others, total %	0,10
Al %	Remaining

Typical mechanical properties in accordance with EN 755-2								
Temper	Product	Dim. [mm]	Rm [MPa]		Rp _{0,2} [MPa]		A ₅ %	HB (Typ.)
			min	max	min	max		
T6, T6511	Rod/Bar	≤ 15	215	-	160	-	8	70

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	kg/dm ³	2,7
Modulus	MPa	68900
Heat capacity (at 20°)	W/m*K	218
Coeff. of thermal exp. (at 20°)	x 10 ⁻⁶ °C	23,5
Conductivity (at 20°)	MS/m	30,2

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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