

AA 6023



aluminium bozen

ALUMINIUM BOZEN - Extrusion Aluminum Alloys

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

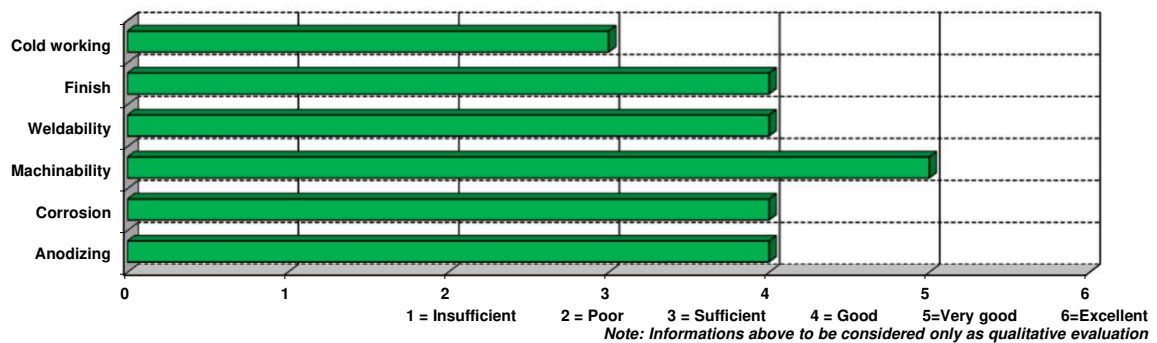
Alloy description

Mg-Si aluminium alloy mainly suitable for those free machining and automotive components, electronic and electrical parts as well as "forging stock" products where mechanical strength and good corrosion resistance, as well as finishing are required to match.

Main features:

- medium/high mechanical properties
- very good machinability
- good corrosion resistance

Alloy technological properties - T6 Temper



Chemical composition in accordance with EN 573-3	
Si %	0,6 - 1,4
Fe %	0,50 max
Cu %	0,20 - 0,50
Mn %	0,20 - 0,6
Mg %	0,4 - 0,9
Bi %	0,3 - 0,8
Sn %	0,6 - 1,2
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%	HB Typical
			min	max	min	max		
T6, T6510, T6511	Rod/Bar	≤ 150	320	-	270	-	10	-

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	Mpa	69000
Heat capacity (at 20°)	$\frac{\text{W}}{\text{m}^2\text{K}}$	172
Coeff. of thermal exp. (at 20°)	$\frac{\text{x } 10^{-6}}{\text{°C}}$	23,2
Conductivity (at 20°)	$\frac{\text{MS}}{\text{m}}$	25,7

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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