

EN AW-6061



aluminium bozen

ALUMINIUM BOZEN - Extrusion Aluminum Alloys

RoHS (Restriction of Hazardous Substances) and ELV (End-of-Life Vehicles) compliant

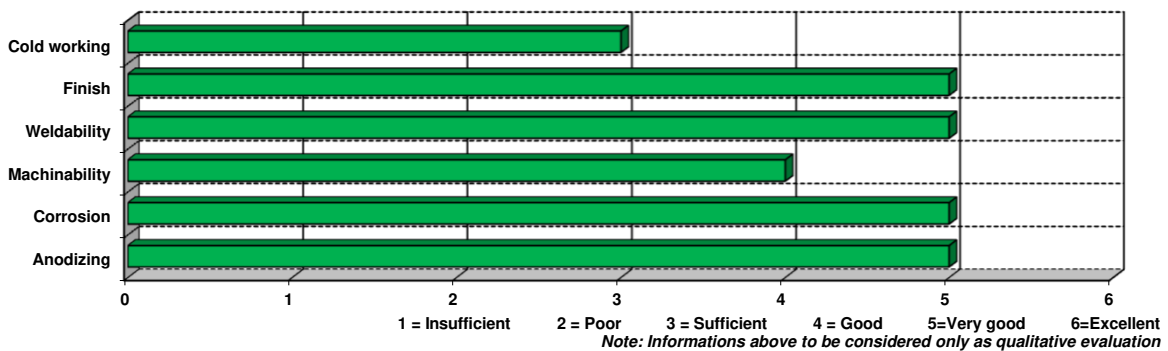
Alloy description

Alloy 6061 (Al Mg1SiCu) is a high strength alloy for highly loaded structural applications. Typical applications are scaffolding elements, rail coach parts, containers, machine building. This alloy is equivalent to EN AW-6082.

Main features:

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

Alloy technological properties - T6 Temper



Chemical composition in accordance with EN 573-3	
Si %	0,40 - 0,8
Fe %	0,70 max
Cu %	0,15 - 0,40
Mn %	0,15 max
Mg %	0,8 - 1,2
Cr %	0,04 - 0,35
Ti %	0,15 max
Zn %	0,25 max
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% min	HB (Typ.)
			min	max	min	max		
T4	Rod/Bar	≤ 200	180	-	110	-	15	65
T6	Rod/Bar	≤ 200	260	-	240	-	8	95

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 ² K	175
Coeff. of thermal exp. (at 20°)	x 10 ⁻⁶ / °C	23
Conductivity (at 20°)	MS / m	22-30

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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