

# AA-6066



aluminium bozen

## ALUMINIUM BOZEN - Extrusion Aluminum Alloys

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

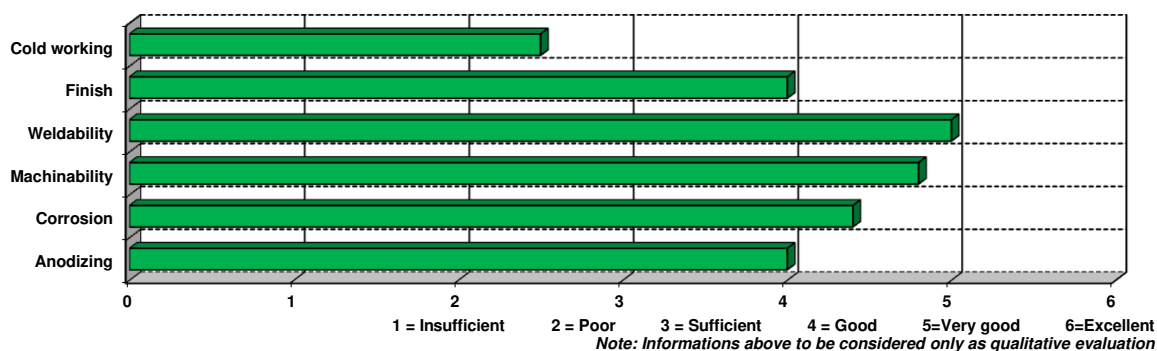
### Alloy description

Alloy mainly designed for forgings and general engineering applications requiring strength, machinability, toughness and corrosion resistance along with good thermal conductivity. It is used especially in machinery, transport and industrial applications.

Main features:

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

### Alloy technological properties - T6 Temper



Chemical composition in accordance with AA	
Si %	0,9 - 1,8
Fe %	0,50 max
Cu %	0,5 - 1,2
Mn %	0,6 - 1,1
Mg %	0,8 - 1,4
Cr %	0,40 max
Ti %	0,20 max
Zn %	0,25 max
Others, each %	0,05
Others, total %	0,15
Al %	Remaining

typical mechanical properties							
Temper	Product	Rm [MPa]		Rp <sub>0,2</sub> [MPa]		A <sub>5</sub> %	HB (Typ.)
		min	max	min	max		
T6/T62	Rod/Bar	370	-	310	-	10	110

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 and relevant treatment/processes

Physical properties		
Density	$\frac{\text{kg}}{\text{dm}^3}$	2,72
Modulus	Mpa	68900
Thermal cond (at 20°)	$\frac{\text{W}}{\text{m}^{\circ}\text{K}}$	147
Coeff. of thermal exp.	$\frac{\text{x } 10^{-6}}{\text{°C}}$	23,2
Conductivity (at 20°)	$\frac{\text{MS}}{\text{m}}$	21,3

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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