

# AA - 2033



aluminium bozen

## ALUMINIUM BOZEN - Extrusion Aluminum Alloys

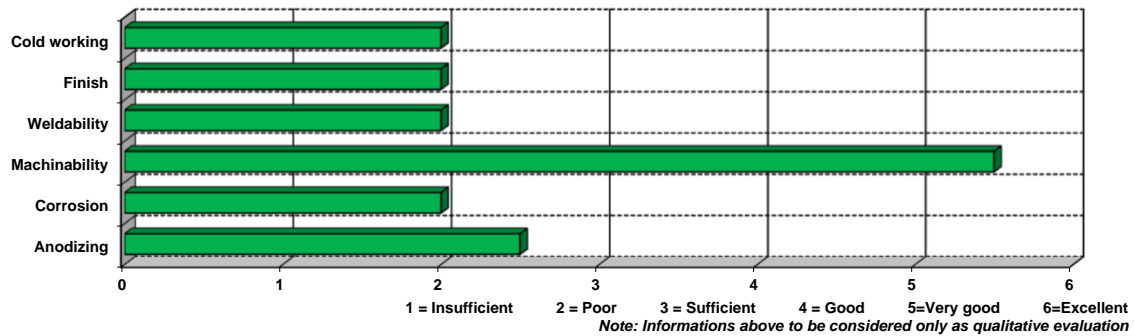
### Alloy description

Al-Cu based aluminum alloy mainly suitable for products/ parts requiring high machinability, as well as very good fatigue performances. Poor resistance to atmospheric corrosion, therefore hard anodizing or similar protection is generally recommended.

Main features:

- medium/ high mechanical properties
- high machinability
- high fatigue performances

### Alloy technological properties - T6 Temper



### Chemical composition in accordance with EN 573-3

Si %	0,10 - 1,2
Fe %	0,70 max
Cu %	2,2 - 2,7
Mn %	0,40 - 1,0
Mg %	0,20 - 0,60
Cr %	0,15 max
Ni %	0,15 max
Zn %	0,50 max
Ti %	0,10 max
Bi %	0,05 - 0,8
Others, each %	0,05
Others, total %	0,15
Al %	Remaining

### Typical mechanical properties

Temper	Product	Dim [mm]	Rm [MPa]		Rp <sub>0,2</sub> [MPa]		A <sub>5</sub> %	HB Typical
			min	max	min	max		
T6, T6510, T6511	Rod/Bar	• 80	370	-	250	-	8	95
		80 < D • 250	340	-	220	-	8	95
	Profile	-	-	-	-	-	-	-

The values given above represent typical figures and may be different depending on product dimension

### Physical properties

Density	$\frac{\text{kg}}{\text{dm}^3}$	2,825
Modulus	Mpa	70000
Heat capacity (at 20°)	$\frac{\text{W}}{\text{m}^3 \cdot \text{K}}$	134
Coeff. of thermal exp.	$\frac{1}{^\circ\text{C}}$	23
Conductivity (at 20°)	$\frac{\text{MS}}{\text{m}}$	24,4

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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