

# EN AW-2618A



aluminium bozen

## ALUMINIUM BOZEN - Extrusion Aluminum Alloys

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

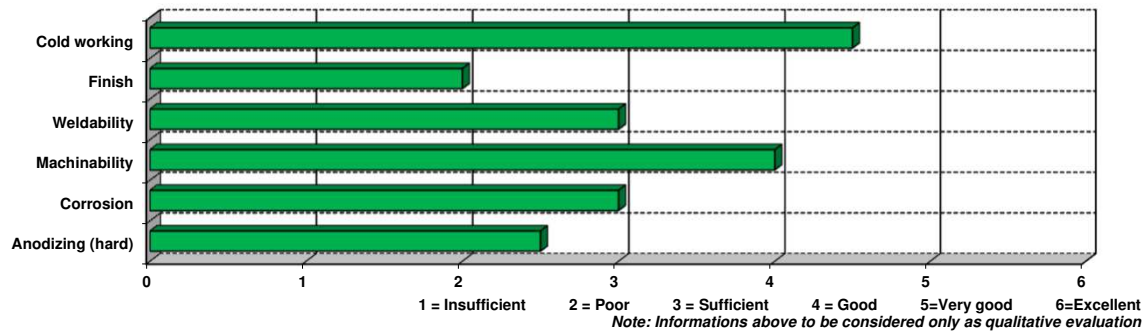
### Alloy description

Al-Cu based aluminum alloy mainly suitable for medium-high strength both die and hand forgings, pistons fabrication and rotating engine parts required to be typically operated at elevated temperatures.

Main features:

- medium-high mechanical strength
- very good performances at elevated temperatures
- good hot and cold formability

### Alloy technological properties - T6 Temper



Chemical composition in accordance with EN 573-3	
Si %	0,15 - 0,25
Fe %	0,9 - 1,4
Cu %	1,8 - 2,7
Mn %	0,25
Mg %	1,2 - 1,8
Ni %	0,8 - 1,4
Ti %	0,20
Zn %	0,15
Others, each %	0,05
Others, total %	0,15
Al %	Remaining
Zr + Ti = 0,25% max	

Typical mechanical properties in accordance with EN 755-2								
Temper	Product	Dim [mm]	Rm [MPa]		Rp <sub>0.2</sub> [MPa]		A <sub>5</sub> %	HB Typical
			min	max	min	max		
T6 /T62*	Rod/bar	≤ 10	410	-	330	-	6	140
		10 < D ≤ 100	420	-	360	-	7	145

Physical properties		
Density	$\frac{\text{kg}}{\text{dm}^3}$	2,76
Modulus	Mpa	74000
Heat capacity (at 20°)	$\frac{\text{W}}{\text{m}^3\text{K}}$	147
Coeff. of thermal exp.	$\frac{\times 10^{-6}}{^\circ\text{C}}$	22,7
Conductivity (at 20°)	$\frac{\text{MS}}{\text{m}}$	21,5

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.

\* Proof-of-temper on products required in "F" condition

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.

Aluminium Bozen  
Via Toni Ebner, 24 - 39100 Bolzano - ITALY