

# EN AW-5754



aluminium bozen

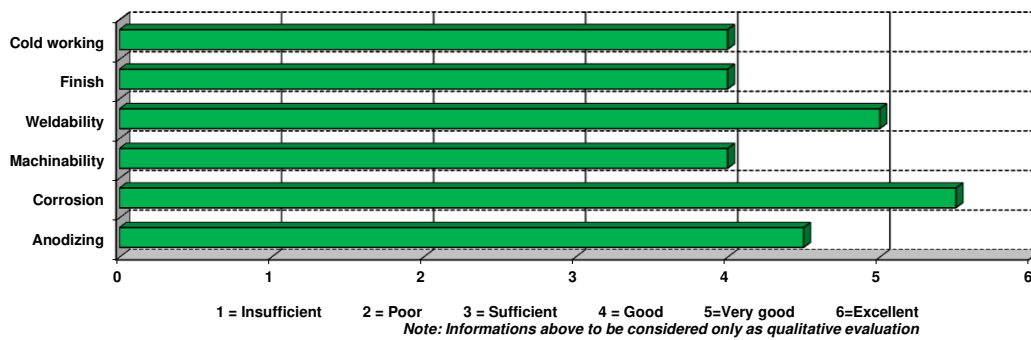
## ALUMINIUM BOZEN - Extrusion Aluminum Alloys

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

### Alloy description

5XXX series alloy typically for rolling and Strain-hardening, with medium-high mechanical properties, containing magnesium as the main alligator and manganese and chromium as specific corrective agents.

### Alloy technological properties



Chemical composition in accordance with EN 573-3	
Si %	0,40 max
Fe %	0,40 max
Cu %	0,10 max
Mn %	0,50 max
Mg %	2,6 - 3,6
Cr %	0,30 max
Zn %	0,20 max
Ti %	0,15 max
Bi %	0,40 - 0,8
Remarks	0,1 - 0,6 Mn + Cr
Others, each %	0,05
Others, total %	0,15
Al %	Remaining

Typical mechanical properties in accordance with EN 755-2								
Product	Temper	Dim. [mm]	Rm [MPa]		Rp <sub>0,2</sub> [MPa]		A%	HB (Typ.)
			min	max	min	max		
Extruded EN 755-2	F, H112	D/S ≤ 150	180	-	80	-	12	47
		150 < D/S ≤ 250	180	-	70	-	-	47
	O, H111	D/S ≤ 150	180	250	80	-	15	45

For a complete evaluation, please refer to EN 755-2 (Extruded Product) and EN 754-2 (Drawn Product).  
 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	$\frac{\text{kg}}{\text{dm}^3}$	2,67
Modulus	MPa	70000
Heat capacity (at 20°)	$\frac{\text{W}}{\text{m}^2\text{K}}$	132
Coeff. of thermal exp. (at 20°)	$\frac{1}{^\circ\text{C}} \times 10^{-6}$	23,8
Conductivity (at 20°)	$\frac{\text{MS}}{\text{m}}$	32,5

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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