

EN AW-5083



ALUMINIUM BOZEN - Extrusion Aluminum Alloys

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

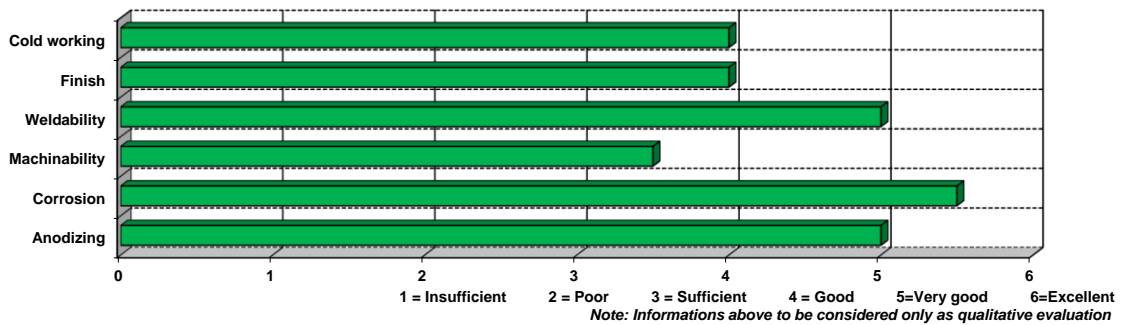
Alloy description

Al-Mg alloy mainly suitable for products where a very good corrosion resistance, especially in aggressive environment, is required, as well as good weldability performances. Typical applications/markets are: optics, marine and medical apparatus/equipments/furnitures.

Main features:

- suitable for anodizing (especially anodizing & protective type)
- very good weldability
- High corrosion resistance, especially in aggressive environment

Alloy technological properties - Hx2 Temper



| Chemical composition in accordance with EN 573-3 | | Typical mechanical properties in accordance with EN 755-2 | | | | | | Physical properties | | | | | |
|--|-------------|---|---------|----------|---|-----|-------------------------|-----------------------|------------------|------------|---------------------------------|------------------------|--------------------|
| Si % | 0,40 max | Temper | Product | Dim [mm] | Rm [MPa] | | Rp _{0,2} [MPa] | | A ₅ % | HB Typical | Density | kg/dm ³ | 2,66 |
| Fe % | 0,40 max | | | | min | max | min | max | | | Modulus | Mpa | 71000 |
| Cu % | 0,10 max | H112 | Rod/Bar | ≤ 200 | 270 | - | 125 | - | 12 | 70 | | Heat capacity (at 20°) | W/m ² K |
| Mn % | 0,40 - 1,0 | | Profile | t all | Other conditions may be available and agreed upon Customer request. | | | | | | Coeff. of thermal exp. (at 20°) | x 10 ⁻⁵ /°C | 23,8 |
| Mg % | 4,0 - 4,9 | The values given above represent typical figures and may be different depending on product dimension. | | | | | | Conductivity (at 20°) | MS/m | 16,5 | | | |
| Cr % | 0,05 - 0,25 | | | | | | | | | | | | |
| Ti % | 0,15 max | | | | | | | | | | | | |
| Zn % | 0,25 max | | | | | | | | | | | | |
| Others, each % | 0,05 | | | | | | | | | | | | |
| Others, total % | 0,15 | | | | | | | | | | | | |
| Al % | Remaining | | | | | | | | | | | | |

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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