

## General technical specifications

### Corrosion strength of aluminum enclosures

#### Caratteristiche della lega d'alluminio

**ALSi9Cu EN AB-47100** (ex UNI 5079) \* con Cu < 1%

#### Properties of the aluminum alloy

**ALSi9Cu EN AB-47100** (ex UNI 5079) \* with Cu < 1%

Peso specifico	2,65 Kg/dm <sup>3</sup>	Specific weight
Carico di rottura	23 ÷ 27 Kg/mm <sup>2</sup>	Ultimate tensile strength
Durezza Brinell	75 ÷ 95	Brinell hardness
Conduttività elettrica a 20°C	15 – 20 Ms/m	Electric conductivity at 20°C
Conduttività termica a 20°C	120 – 150 W/(mk)	Heat conductivity at 20°C
Resistenza al calore °C	+ 300	Heat resistance °C
Resistenza al freddo °C	- 100	Cold resistance °C

#### NORMA EN 1676

Si	10,5 – 13,5
Fe	0,6 – 1,1
Cu	0,7 – 1,2 *
Mn	0,55
MG	0,35
Cr	0,10
Ni	0,30
Zn	0,55
Pb	0,20
Sn	0,10
Ti	0,15

The corrosion strength of aluminum enclosures must be considered good even without special treatments of the effect, aluminum produces a thick and tough oxide layer on its surface, with high corrosion strength, which protects against further oxidation. Corrosion strength is determined by the copper percentage contained in the aluminum alloy (%). However, such a natural corrosion strength is not enough in certain environments since the oxide layer is subjected to the action of aggressive substances. This can be avoided by means of varnishing.



We supply a slightly orange peeled varnishing RAL 7035 grey. Other RAL colors on specific customer request and according to quantities.