

General characteristics

>> 6005 <<

Aluminium-Magnesium-Silicon Alloy, used mainly for the construction of space frames, sub frames and anti-crash structures for the automotive and construction industries, also used in pneumatics and mechanics.

Caratteristiche meccaniche minime a temperatura ambiente

bars

State	Rm(Nmm ²)	Rp0,2 (Nmm ²)	Hardness Hb	Elongation%
T6	180	90	85/90	15

Physical characteristics

Density: 2,7 kg/cm³ a 20°CThermal conductivity at 20°C: 2,09 W/cm °C
(state T0)

Modulus of elasticity: 69000 Mpa

Fusion temperature: >615°C

Thermal dilatation coefficient: 23,5 µ °C

Technological characteristics:

High resistance to corrosion.

Particularly suited for anodical oxidation, color oxidation and mechanical polishing.

Good mechanical characteristics.

Typical uses

Doors/windows joinery, claddings and decorative elements in construction, bodyworks, metal furniture, tv antennas

Alloy of the family

Al - Mg0,6 - Si0,7

Chemical composition of alloy 6005 in %

Cu	Fe	Mn	Mg	Si	Zn	Cr	Ti	Zr + Ti
0,10	0,35 max	0,10	0,40 - 0,60 max	0,60	0,90	0,10	0,10	0,10 - 0,15 max