

General characteristics

>> Alloy 5005 <<

Aluminium Magnesium alloy suitable for oxidation.

It is' mainly used in laminated form, thanks to the particular modelling behaviour. Usually in sheets is protected by PVC. Can be found silver anodised, golden and black

Minimal mechanical characteristics at ambient temperature

Laminates and tapes

State	Rm (Nmm ²)	Rp0.2 (Nmm ²)	Hardnes s
0	120	40	28
H34	160	135	45
H38	200	190	50

Physical characteristics

Density: 2.69 kg/dm³ a 20 °C

Thermal conductivity at 20 °C: 176 W/m °C

Fusion temperature : 630 - 655

Technological characteristics:

Workability at utensil machines: sufficient

Formability: low in state H38; good in state 0

Weldability: good (TIG – MIG)

Anodisation behaviour : good

Resistance to high : corrosion

Typical uses

In the furniture, chemical and food industry.

Correspondence between international designations Alloy of the family

France	Germany	Italy	USA	Great Britain	
A-g0,6	AlMg 1	9005/1	5005	N41	Al Mg

Chemical composition of alloy 5005 in %

Cu	Fe	Mn	Mg	Si	Zn	Cr
0.20 max	0.7 max	0.2	0.50 – 1.0	0.30 max	0.24	0.10 max