

General characteristics

>> Alloy 5754 <<

Aluminium alloy in which the main alloying agent is Magnesium.

It is mainly used in laminated form
It is usually available in states H111 and H24

Minimal mechanical characteristics at ambient temperature

Laminates and tapes

State	Rm (Nmm ²)	Rp0.2 (Nmm ²)	Hardnes s
H11	220-270	80	52
H24	240-280	160	70

Physical characteristics

Density: 2.67 kg/dm³ a 20 °C
Thermal conductivity at 20 °C: 132 W/m °C
Fusion temperature : 590 - 645

Technological characteristics:

Workability at utensil machines: sufficient
Formability: good
Weldability: good (TIG – MIG)
Anodisation behaviour : good
Resistance to corrosion: high

Typical uses

Hydraulic constructions, parts of railway, naval and military vehicles, rpressure containers, applications in which the combination through welding is required and food industry.

Correspondence between international designations

France	Germany	Italy	USA	Great Britain
	AlMg 3	9005/3		

Alloy of the family

Al + 3 Mg (Mn-Cr)

Chemical composition of alloy 5754 in %

<u>Cu</u>	<u>Fe</u>	<u>Mn</u>	<u>Mg</u>	<u>Si</u>	<u>Zn</u>	<u>Cr</u>	<u>Ti</u>
0.1	0.40 max	0.5	2.6 – 3.6	0.4 max	0.2	0.3	0.15