



SERIES 6000

# AW 6061 (Al Mg1SiCu)

The aluminum alloy AW6061 is a hardened alloy, which contains Magnesium, Silicon and Aluminum as its main elements. It has good mechanical properties and good welding ability, being one of the most common alloys for general use, especially structures that require good corrosion behavior.

## CHEMICAL COMPOSITION (WEIGHT %) (EN 753 - 3)

ELEMENTS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
Minimum	0.4	-	0.15	-	0.8	0.04	-	-	-
Maximum	0.8	0.7	0.05	0.15	0.05	0.35	0.25	0.15	Rest

## MECHANICAL PROPERTIES (EN 755 - 2)

TEMPER	THICKNESS (mm)	Rm* (MPa)	Rp0.2* (MPa)	A (%)	HB - BRINELL HARDNESS
T6 and T651	15-82	260	240	8	95

\*Minimum values.

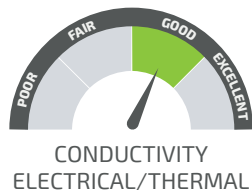


### MAIN CHARACTERISTICS

- Low mechanical strength
- Good corrosion resistance
- Good machining and folding
- Good polishing ability
- Good weldability

### APPLICATIONS

- Automotive and transport industry
- General industry
- Shipbuilding industry
- Aircraft structures
- Hydraulic systems





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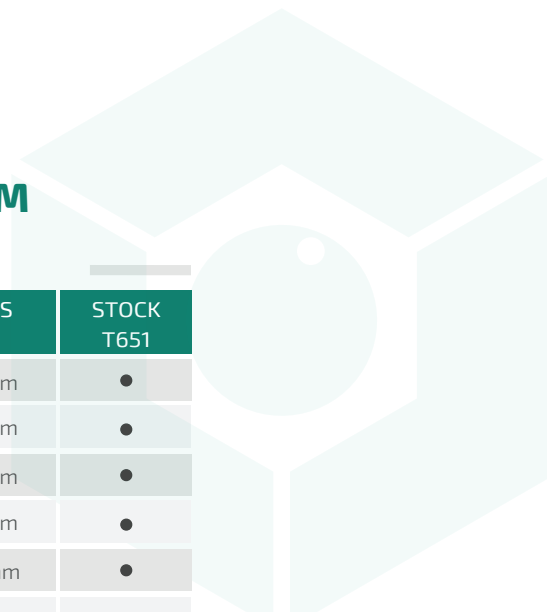
## PHYSICAL PROPERTIES

DENSITY	2.70 kg/m <sup>3</sup>
MODULUS OF ELASTICITY	70 000 MPa
LINEAR EXPANSION COEFFICIENT	23 10 <sup>-6</sup> /K
THERMAL CONDUCTIVITY	170-200 W/mK
ELECTRICAL CONDUCTIVITY	22-30 MS/m

## DELIVERY PROGRAM

### PLATES

THICKNESS (mm)	DIMENSIONS (mm)	STOCK T651
15,87	1536 x 3670 mm	●
19,05	1536 x 3670 mm	●
25,04	1536 x 3670 mm	●
38,10	1536 x 3670 mm	●
40,00	1520 x 3020 mm	●
44,45	1536 x 3670 mm	●
50,80	1520 x 3020 mm	●
82,55	1536 x 3670 mm	●



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# LANEWA