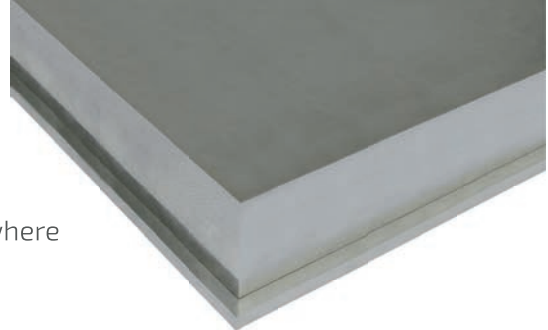




SERIES 7000 ●

AW 7021 (Al Zn5,5Mg1,5)

Aluminium obtained by CAST process, with high mechanical resistance, designed for the manufacturing of tools, moulds and other applications where a good dimensional stability is required.



CHEMICAL COMPOSITION (WEIGHT %) (EN 573 - 3)

ELEMENTS	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Zr	Al
Minimum	-	-	-	-	1.2	-	5	-	0.08	-
Maximum	0.25	0.4	0.25	0.1	1.8	0.05	6	0.1	0.18	Rest

MECHANICAL PROPERTIES

Rm* (MPa)	Rp0.2* (MPa)	A (%)	A50 (%)	HB - BRINELL DUREZA
410	350	10	8	≈120

*Minimum values.

Information transcribed from the supplier datasheet.

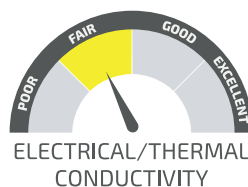


MAIN CHARACTERISTICS

- High resistance aluminium plates
- Very good dimensional stability
- Low internal stress
- Good weldability
- Good resistance to corrosion

APPLICATIONS

- Manufacturing of tools, moulds and models
- Injection moulds
- Construction of machinery and equipment
- Base plates, table tops and mounting plates



PHYSICAL PROPERTIES

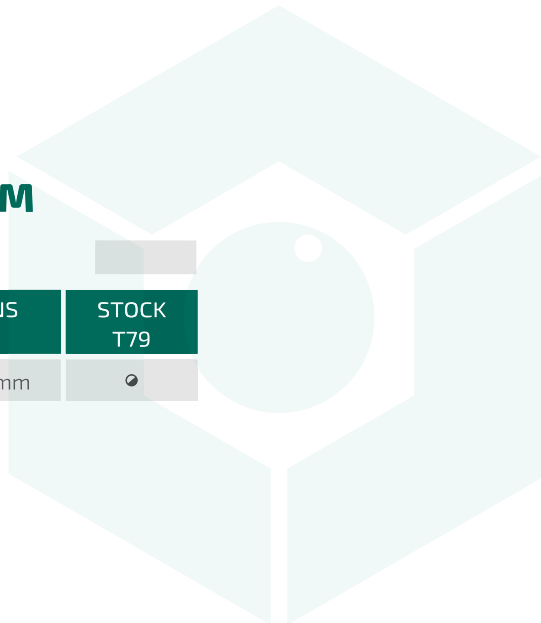


DENSITY	2.80 g/cm ³
MODULUS OF ELASTICITY	70 000 MPa
LINEAR EXPANSION COEFFICIENT	23 x 10 ⁻⁶
THERMAL CONDUCTIVITY	125 - 155 W/mK
ELECTRICAL CONDUCTIVITY	20 - 24 m/Ω mm ²

DELIVERY PROGRAM

PLATES

THICKNESSES (mm)	DIMENSIONS (mm)	STOCK T79
10 - 500	3020 x 2020 mm	●



POLY

MACHINABILITY	
HOMOGENIZED	EXCELLENT
DIMENSIONAL STABILITY	EXCELLENT
EROSION	EXCELLENT
SURFACE TREATMENT	
PROTECTIVE ANODIZING	FAIR/GOOD
SPECIAL ANODIZING QUALITY	-
DECORATIVE ANODIZING	UNSUITABLE
PAINTING / COATING	FAIR/GOOD
POLISHING	GOOD/EXCELLENT
RESISTANCE TO CORROSION	
NORMAL ATMOSPHERE	EXCELLENT
MARITIME ATMOSPHERE	EXCELLENT

(COLD) FORMING	
FOLDING	UNSUITABLE
ROTARY MOVEMENT	UNSUITABLE
DEEP STAMPING	UNSUITABLE
BULGING	UNSUITABLE
COLD EXTRUSION	UNSUITABLE
WELDABILITY	
GAS	UNSUITABLE
WIG	GOOD/EXCELLENT
MIG	GOOD/EXCELLENT
RESISTANCE FUSION WELDING	UNSUITABLE

● Standard: generally available from stock
 ● Semi-standard: generally not available from stock
 ○ Non-standard: generally not available from stock, manufactured to order and subject to special conditions.