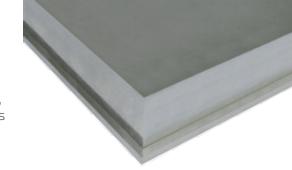
AW 7021 cast (Al Zn5,5Mg1,5)

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	Rp0.2	A	A50	HB - HARDNESS
(MPa)	(MPa)	(%)	(%)	BRINELL
310-36	280-340	2	8	120 - 130

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 mouting plates



MACHINABILITY









MAL BRINNEL HARDNESS

DENSITY

PHYSICAL PROPERTIES

Density	2.78 g/cm ³
Moldulus of Elasticity	70 000 MPa
Linear Expansion Coefficient	23 x 10 ⁻⁶
Thermal Conductivity	125 - 155 W/mK
Electrical Conductivity	21 - 24 m/Ω mm ²



DELIVERY PROGRAM ON REQUEST

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	Fair			
Maritime Atmosphere	Poor/Unsuitable			

(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.