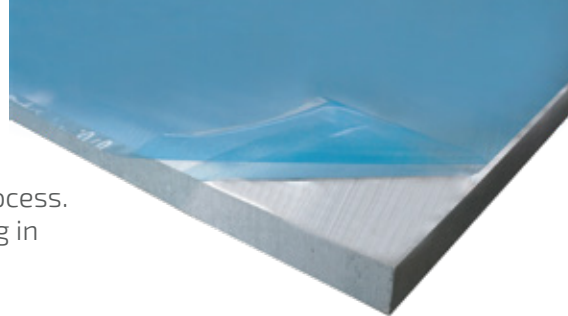




SERIES 7000

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

This aluminium is produced from AW 7021 "Cast" obtained by casting process. It fills a gap between medium and high resistance alloys, the latter being in many cases undervalued. It is characterized by a very low microporous homogeneous structure, excellent machinability and high resistance.



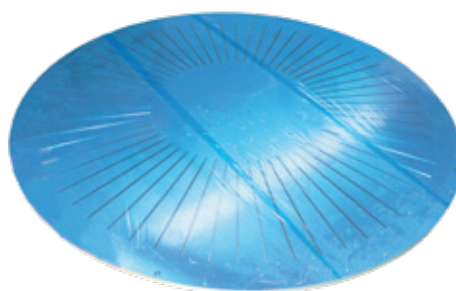
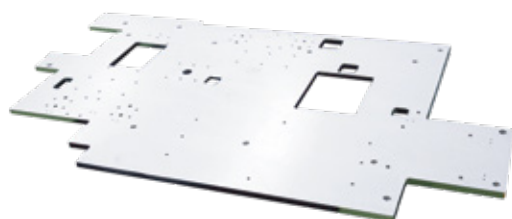
CHEMICAL COMPOSITION (WEIGHT %) (EN 573 - 3)

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

THICKNESSES (from...to)	Rm (MPa)	Rp0.2 (MPa)	A50 (%)	HB - BRINELL HARDNESS
5 - 450 mm	320-380	300-340	2.5 - 4.5	120 - 130

Information transcribed from the supplier datasheet.

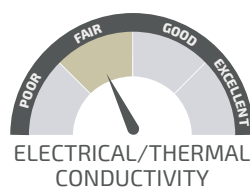


MAIN CHARACTERISTICS

- Guaranteed thickness tolerance, ± 0.1 mm
- High resistance aluminium plates
- Surface machined and coated with PVC film
- Very good dimensional stability
- Low internal stress
- Good weldability
- Good resistance to corrosion

APPLICATIONS

- Manufacturing of tools
- Construction of machinery and equipment
- Base plates, table tops and mounting plates
- All applications where the faces are not to be rectified and better performance is required compared to 5083 alloy.



All figures given are indicative only, Polyanema Lda. is not liable for the use of the materials without consulting with our technical department.



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 UPON REQUEST.

TOLERANCES:

-Thickness < 15: Thickness tolerance ± 0.1 mm / Flatness 0.4 mm / Length 0/+20 and Width 0/+10
 -Thickness > 15: Thickness tolerance ± 0.1 mm / Flatness 0.25 mm / Length 0/+20 and Width 0/+10

MACHINABILITY	
Thermically treated	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