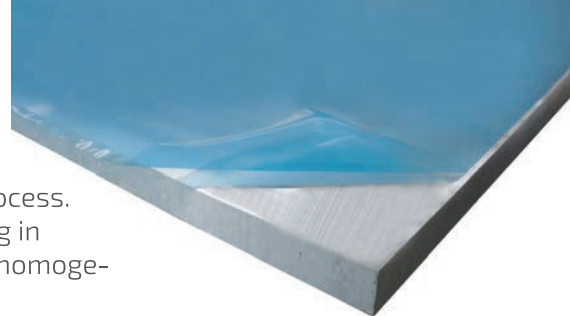




SERIES 7000 ●

# 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.



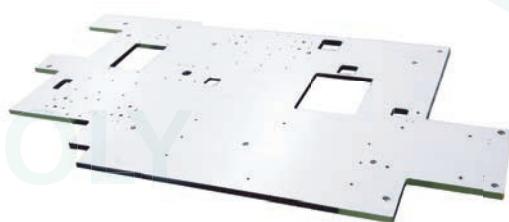
## CHEMICAL COMPOSITION (WEIGHT %) (EN 573 - 3)

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)	A5 (%)	A (%)	HB - BRINELL HARDNESS
5 - 450 mm	330 - 380	250 - 300	3	10	110 - 120

Information transcribed from the supplier datasheet.

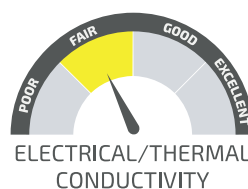


## MAIN CHARACTERISTICS

- Guaranteed thickness tolerance,  $\pm 0.1$  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.





## PHYSICAL PROPERTIES

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

## DELIVERY PROGRAM

### PLATES

THICKNESS (mm)	DIMENSIONS (mm)	PLATE WEIGHT(kg)	STOCK
10	1520 x 3020	128.53	●
12	1520 x 3020	154.30	●
15	1520 x 3020	192.80	●
20	1520 x 3020	257.10	●
25	1520 x 3020	321.40	●
30	1520 x 3020	385.60	●
35	1520 x 3020	449.90	●
40	1520 x 3020	514.95	●
50	1520 x 3020	642.70	●

Average weights of production.  
Other dimensions on 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

● 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.