

# ALUMINIUM CAST PLATE

## ALUDUR: ALUMINIUM CAST PLATE

### Excellent Machinability & Stability

We are the company that has introduced aluminium cast plates to the Turkish market and to this day are the sole local producers. Since June 2009, we have been manufacturing this product under the ALUDUR brand within our own facilities.

Today, this product is produced through secondary aluminium slabs utilizing minimum 80% industrial scrap.

ALUDUR plates are produced in compliance with the DIN EN 485-2 standard through alloy control. A special heat treatment is applied to make the material's structure completely homogeneous, relieving internal stresses. Consequently, ALUDUR exhibits excellent workability and dimensional stability.

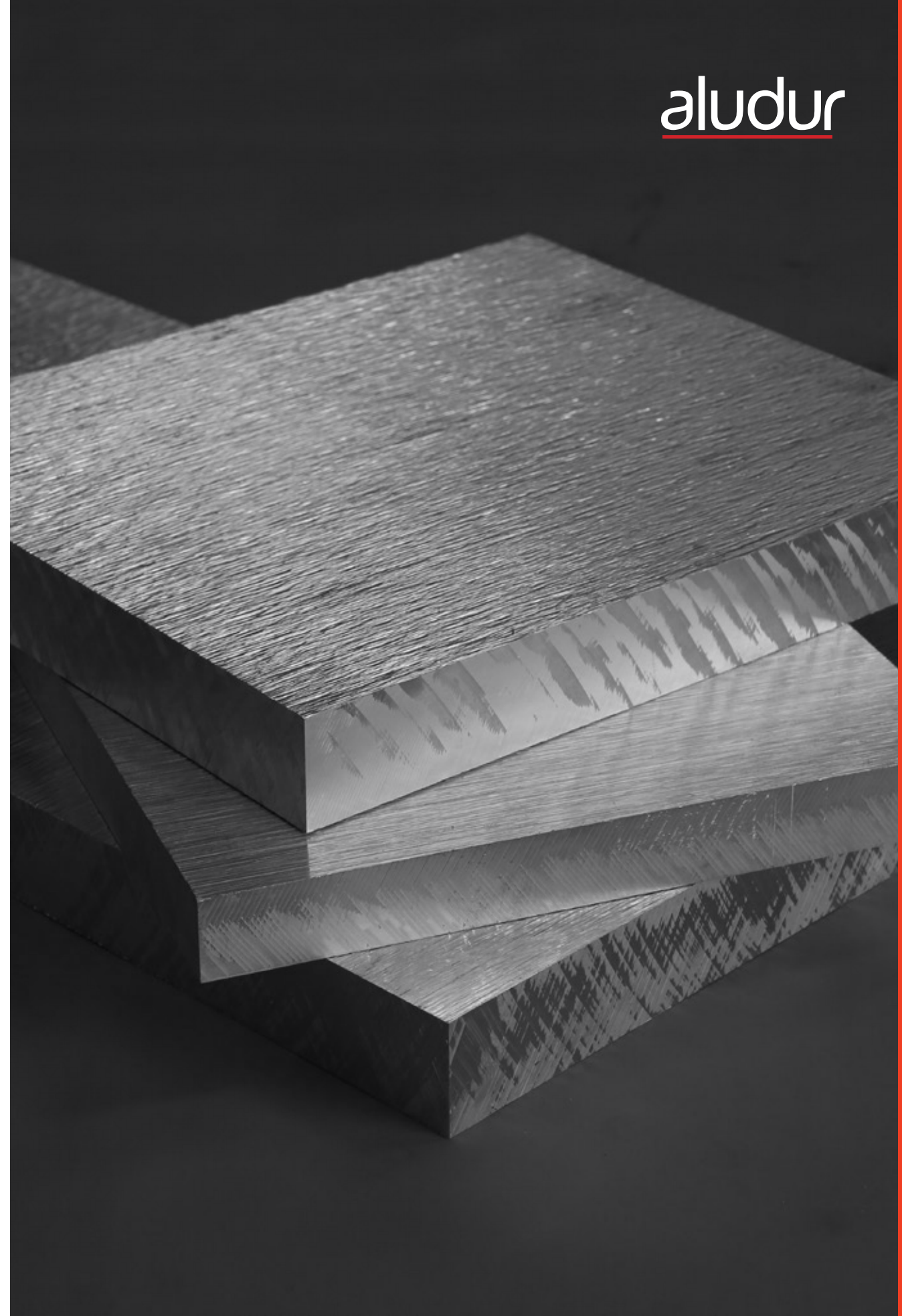
- Custom Cutting / Full Material
- Precision cutting to Size

## FEATURES

- Excellent Dimensional Stability
- Excellent Workability
- Excellent Corrosion Resistance

## APPLICATION AREAS

- Cubing
- Mold Production
- Industrial Special Fixture Production
- Packaging Machine Manufacturing



# ALUMINIUM CAST PLATE PROPERTIES

ALLOY	TEMPER	TENSILE STRENGTH	YIELD STRENGTH	ELONGATION	HARDNESS
		(Rm / Mpa).	(Rp0,2) Mpa	% A	HBWa
5754	O3	240	80	17	52
5083	O3	270	125	12	75
7021	T79	355	330	5	100-120

SIZE	5083	5754	7021
Thickness (min - max)	6-670 mm	6-670 mm	15-400 mm
Width (max)	2020 mm	2020 mm	1600 mm
Length (max)	4050 mm	4050 mm	3200 mm

PHYSICAL PROPERTIES		5083	5754	7021
Density	[g/cm <sup>3</sup> ]	2,66	2,66	2,8
Module of elasticity	[GPa]	70	70	70
Electrical conductivity	[M/Ω·mm <sup>2</sup> ]	16 - 18	20 - 23	21 - 24
Coeffic. of thermal expansion	[K <sup>-1</sup> ·10 <sup>-6</sup> ]	23,3	23,9	23,0
Thermal conductivity	[W/m·K]	110 - 130	130 - 160	125 - 155
Specific heat capacity	[J/kg · K]	900	900	875

SURFACE QUALITY	
Surface Roughness	10-15 µm

CUTTING TOLERANCES	
5 - 100 mm	+/- 0.2 mm
101 - 180 mm	+/- 0.5 mm
181 mm	+/- 0.5 mm

FLATNESS TOLERANCE	
5 - 12 mm	≤ 0.40 mm
< 12 mm	≤ 0.13 mm

THICKNESS TOLERANCE	
Thickness	+/- 0.1 mm

SIZE	
Thickness	min. 5 / max. 100 mm
Width	max. 2020 mm
Length	max. 4020 mm









**ALTEK METAL**

PIONEER SOLUTION PARTNER

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