



ALUMINIUM CAST TOOLING PLATE

ALUDUR PLUS: ALUMINIUM CAST TOOLING PLATE

Precision Milled to Perfection

With 15 years of cast plate production experience, Altek Metal has developed itself as the leading cast plate producer and is a key supplier to the EU. Starting as a simple linear cut to size business, Altek Metal today casts their own slabs, has a fully automated cutting operation and mills its plates to perfection. Altek's flagship products, Aludur and Aludur Plus, produced through minimum %80 industrial clean scrap, have been successfully transitioned into the circular economy, thereby ensuring the environmental sustainability of its products.

Aludur Plus precision milled cast plates are meticulously produced in accordance with the DIN EN 573-3 standards through alloy controls. A special heat treatment ensures the material's structure becomes completely homogeneous, eliminating internal stresses. This unique process makes Aludur Plus materials excellent in workability and dimensional stability. With high surface quality, Aludur Plus plates are produced with a maximum roughness of 0.3 Ra. This product is ideal for sectors where quality high-precision and repeatability is crucial.

Aludur Plus can be produced in thicknesses ranging from a minimum of 5 mm to a maximum of 300 mm. We have the production capacity for milled aluminium cast plates with width up to 2020 mm and lengths up to 4020 mm.

- Custom Cutting / Full Material
- Precision Cutting to Size

FEATURES

- Excellent Dimensional Stability & Surface Quality
- Precise Tolerances
- Homogenized Molecular Structure

APPLICATION AREAS

- Printing Machines
- Router Tables
- Industrial Fixture Production
- Packaging Machines



ALUMINIUM CAST TOOLING PLATE PROPERTIES

ALLOY	TEMPER	TENSILE STRENGTH	YIELD STRENGTH	ELONGATION	HARDNESS
		(Rm / Mpa).	(Rp0,2) Mpa		
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)	5-100 mm	5-100 mm	15-100 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 ³]	2,66	2,66	2,8
Module of elasticity	[GPa]	70	70	70
Electrical conductivity	[M/Ω·mm ²]	16 - 18	20 - 23	21 - 24
Coeffic. of thermal expansion	[K ⁻¹ ·10 ⁻⁶]	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

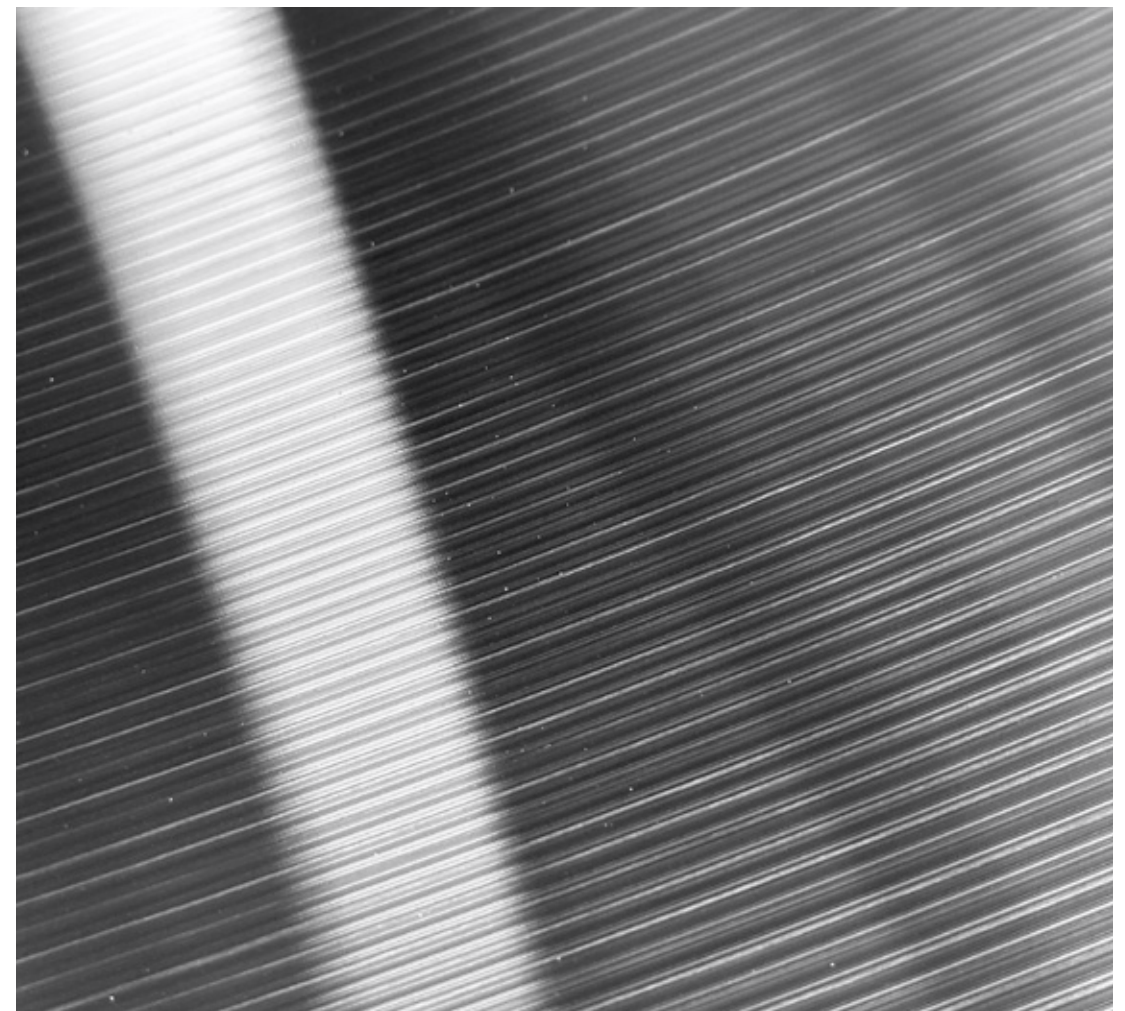
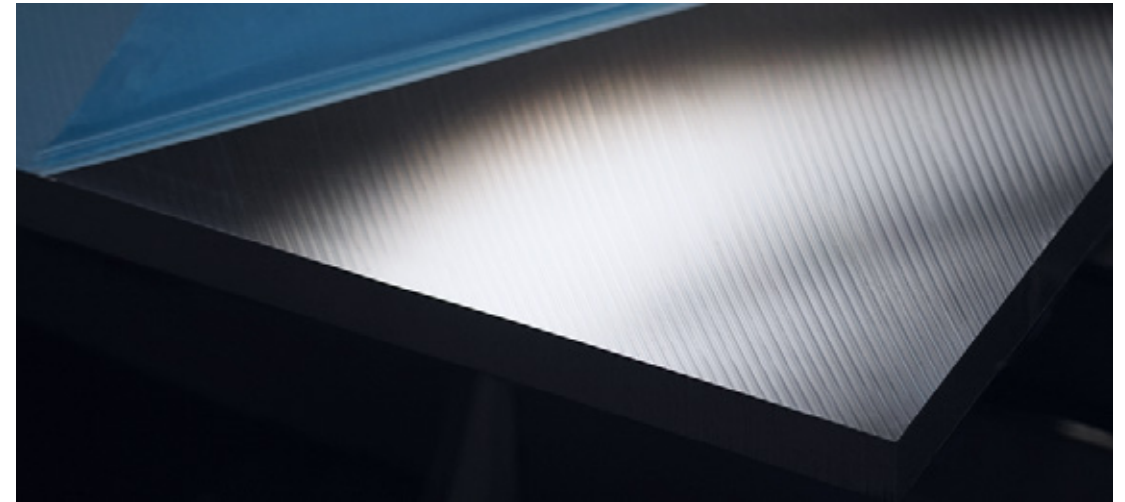
SURFACE QUALITY	
Surface Roughness	≤ 0,30 μm

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

ALTEKMETAL.COM

BÜYÜKDERE CAD. NO: 122 A BLOK, 2. KAT,
34394 ESENTEPE, İSTANBUL, TÜRKİYE