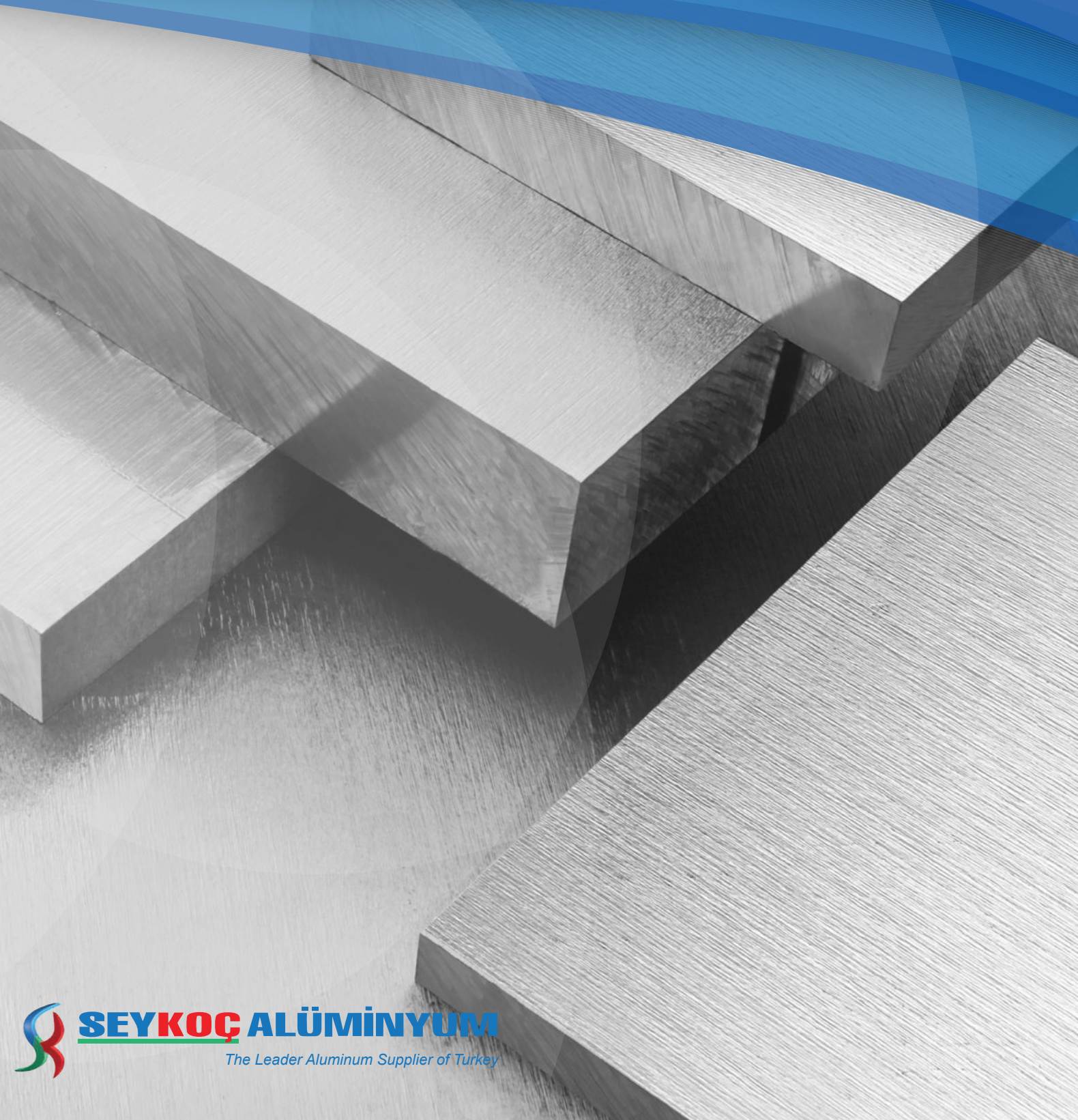
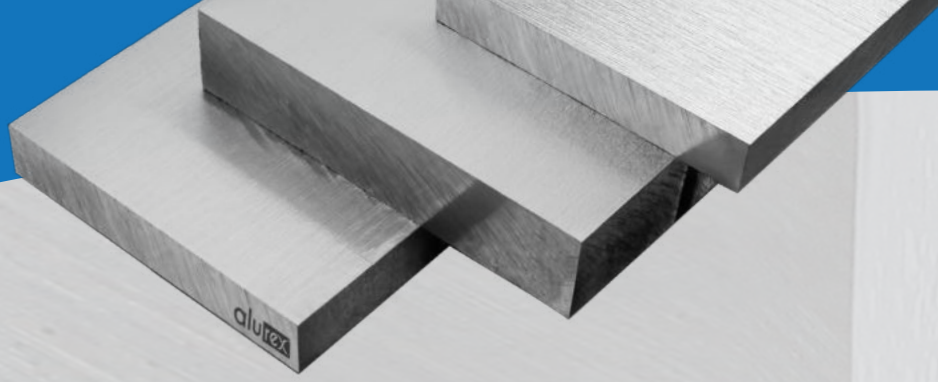


alurex®

5083 Cast Plate





- Alurex is a cast plate brand of Seykoç, which is produced to be alternative of EN AW 5083 alloy, stress relieved, Ultrasonic -test performed and excellent machining capability properties.
- Ultrasonic crack detection test is performed on 100% parts in accordance with the customers request.
- The main fields of application of Alurex are model building, fixture, food and packaging machine, aircraft industry processing plate, mould making so many industries.

*Depends on customer request.

ALLOY PROPERTIES

EN AW	5083
EN AW	Al Mg4.5 Mn0.7
EN AW	Al Mg4.5 Mn
DIN No.	DIN 3.3547

Physical Properties:

Density [g/cm ³]	2.66
Modulus of Elasticity	70000 N/m ²
Thermal Conductivity	110-125 W/m*K
Thermal Expansion Coefficient	24,2 10-6 K
Specific Thermal Capacity	900 J/kg
Electrical Conductivity	15-18 m/Ωmm ²
Surface Roughness	10-15 µm

Chemical Composition (EN 573-3):

Chemical Properties in %											Other	
Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Ga	V	Each Max	Total
0.40	0.40	0.10	0.40 – 1.0	4.0 – 4.9	0.05 – 0.25	-	0.25	0.15	-	-	0.05	0.15

Properties:

- Excellent Machinability
- Excellent Corrosion Resistance
- Good Weldability
- Low Stress and Very Good Dimensional Stability

The Main Application Field:

- Tool and Mould Making
- Blow Moulds and Injection Moulds
- Model Building
- Heat Proof Components

Form:

Plates



Thickness Range and Dimensions:

Thickness	5mm - 600mm
Width x Length	2100 x 4000mm
<i>Please contact us for other dimensions.</i>	

Tolerances:

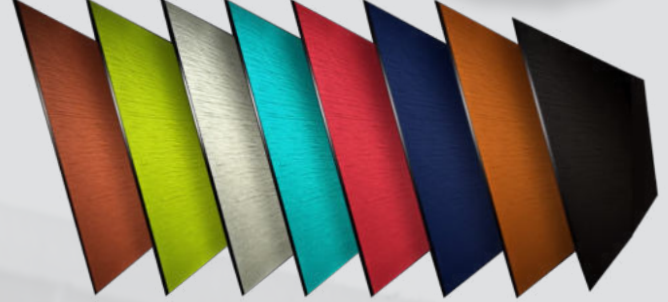
Thickness	± 0.30mm
Width x Length	± 0.20mm

Flatness:

Thickness 6 - 15mm	≤ 0,50mm
Thickness > 15mm	≤ 0,15mm

Other Properties:

Machinability	
Homogenised and acc. to stress	1 – 2
Dimensional Stability	1
Erodability	1
Surface Treatments	
Anodizing	2
Special Anodizing Quality (AQ)	-
Painting / Coating	1
Polishing	2
Weldability	
Gas	2
WIG	2
MIG	2



Homogeneity:

Annealing / Recrystallization	
Annealing Temperature	380 °C - 420 °C
Heating Time	0.5 – 3 hour
Cooling Conditions	30 °C/h - 50 °C/h

Corrosion Resistance

Normal Atmosphere	1
Salt Water	1

Forming

Cold Forming	
Bending	5
Pressure Forming	5
Deep Drawing	5
Forging	2
Impact Extrusion	5
Hot Forming	
Impact Forging	-
Extrusion	-
Conformity for food industry according to DIN EN 602	Yes

Rating:

1 - Excellent | 2 - Good | 3 - Average | 4 - Fair | 5 - Poor

AQ - Anodized Quality must be pointed.



5083 Cast Plate

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