





# Who are we?

**C**an Alüminyum, one of the first and the largest aluminum trading companies of Turkey has been growing steadily with its solution-oriented strategies since 1975. With a strong stock capacity on a 13.000 m<sup>2</sup>, it's a reliable supplier of all products groups made of aluminum alloys. It serves the furniture, construction, industry and automotive sectors.

## **ACCESSIBILITY AND COMPETENCIES**

Central store and NOSAB branch in Bursa, logistics warehouse in Ankara, sales team located in Istanbul and Ankara and with its on-site sales points Can Alüminyum serves the entire national market. It aims to meet the highest customer expectations with its metal processing Technologies equipped with new machine park in addition to CNC cutting, bending, machining and laser cutting services.

Many years of Commercial collaborations with the leading flat product manufacturers in our country and the World, continues to strengthen our company's position in the market. With its 1050, 5754, 5005 and 5083 alloy product stocks, it provides its customers quality and Can Alüminyum adopts the principle of providing fast service; offers solutions to its customers with its brands; In the Flat Metal group, LevhaRulo, SigmaTeknik in Industrial group, SistemMobicci in furniture products.

# Service Location



## HEADQUARTERS

Ankara Cad. No: 334, 16130, Bursa/TÜRKİYE  
T: 0 (224) 272 20 00 - F: 0 (224) 272 20 10  
E: canaluminyum@yesilova.com.tr



### MACHINING CENTER

Nilüfer Organize San.  
Böl. Ihlamur Cadde No:8  
Nilüfer/BURSA  
T: 0 (224) 272 20 00



### POWDER COATING FACILITY

Yunusemre Mh. Muhsin  
Yazıcıoğlu Bulvarı  
No:155A Yıldırım/BURSA  
T: 0 (224) 361 51 19



### ANKARA LOGISTICS WAREHOUSE

Keresteciler San. Sit.  
15 Cd. No:17  
Kahramankazan/ANKARA  
T: 0 535 491 07 15



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# Content

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» ALLOYED  
NON-ALLOYED  
SHEET



ALUMINUM  
COIL

» ALUMINUM  
PLATE



PERFORATED  
PRODUCTS

# Service Fields

## TRANSPORTATION



Automotive



Rail Systems



Airway Transportation



Ship Construction



Tanker/Truck



Bus

## ENGINEERING/ CONTRACTING



Mold/Fixture



Insulation



Heating/Cooling



Server Cabin

## OUTDOOR ADVERTISING



Gas Stations



ATM Machines



Signboards



Totems

## ARTCHITECTURE



Expanded Products



Perforated Products



Roofing Products



Dome Coating Products



Decoration Products

# Aluminum Alloys

Aluminum has a density of about one third of steel or copper, is easily malleable, machinable, castable and 100% recyclable, and has led to its use in the manufacture of millions of different products in many fields of industry with its superior corrosion resistance. Structural components made of aluminum are indispensable for the aerospace industry.

## » 1000 SERIES

It has 99 percent and higher aluminum content. It is mainly used in the electrical and chemical industries. Strong corrosion resistance, high thermal and electrical conductivity, low mechanical properties and excellent machinability are among its most important features.



## » 2000 SERIES

The primary alloying element is copper, and magnesium is generally preferred as the secondary element. These alloys are subjected to heat treatment in order to have optimum properties, and sometimes their mechanical properties are increased by aging.

**Alloys:** 2014, 2024.



## » 3000 SERIES

The group, whose primary alloying element is manganese, is usually not heat treated.

**Alloys:** 3003, 3103, 3005, 3105.

## » 4000 SERIES

The primary alloying element is silicon, and its proportion is generally up to 12 percent. It is mostly used as welding wire and brazing alloy.

## » 5000 SERIES

The primary alloying element is magnesium. It has many uses, especially in the ship industry, with its high strength, weldability and high corrosion resistance (against sea water and chemicals).

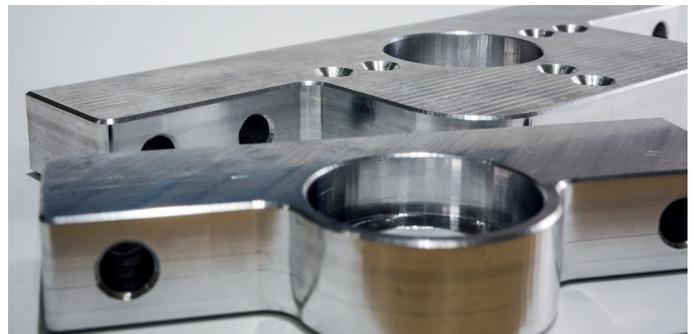
**Alloys:** 5005, 5049, 5052, 5058, 5754.



## » 6000 SERIES

They are heat treatable alloys made of aluminum with Mg and Si. Although it does not have as good strength as the 2XXX and 7XXX series, it has high corrosion resistance and excellent machinability.

**Alloys:** 6013, 6052, 6061.



## » 7000 SERIES

The primary alloying element zinc is present in between 1 percent and 8 percent. It is generally used with Mg, Cu and low amounts of Mn and Cr to increase its strength more. The most important alloys of this group, 7075, 7050 and 7049, have become the indispensable aluminum alloy of the aircraft industry with their excellent strength under high tension.

**Alloys:** 7079, 7050, 7075.



## MECHANICAL PROPERTIES AND COMPARATIVE ALLOY TABLE

Alloy EN	Alloy DIN	Etial	Tensile Strength RM (MPa)	Yield Strength Rp0,2 [MPa] (%)	Elongation (min-%)	Hardness (HB)	Density (gr/cm <sup>3</sup> )
1050	Al 99,5	Etial-5	105-145	85	4	34	2,71
3003	AlMnCu	Etial-0	145-185	115	5	45	2,71
3105	AlMn0,5Mg0,5	Etial-1	150-200	120	5	47	2,71
5005	AlMg1	Etial-30	125-165	80	5	47	2,71
5052	AlMg2,5	Etial-35	210-260	130	7	61	2,71
5754	AlMg3	Etial-50	210	80	17	52	2,72
5083	AlMg4,5Mn	Etial-52	275	125	15	75	2,73
6061	AlMgSiCu	Etial-53	343	318	11	95	2,70
6082	AlMgSi1	Etial-60	358	310	10	95	2,70
7075	AlZnMgCu1,5	Etial-65	533	462	8,5	150	2,80
8011	AlFeSi	Etial-62	105-145	90	6	35	2,71
8006	AlFe1,5Mn	Etial-44	90-125	60	4	-	2,71

**EN:** European Union Standard (valid for European Union member or candidate countries) **ETIAL:** Eti Aluminum Standard

## CHEMICAL PROPERTIES

Alloy	Mg	Mn	Fe	Si	Cu	Zn	Cr	Ti	Zr	Other
1050	<0.05	<0.05	<0.40	<0.25	<0.05	<0.07	-	<0.05	-	-
2014	0.20-0.8	0.40-1.2	<0.7	0.50-1.2	3.9-5.0	<0.25	<0.10	<0.15	-	<0.15
3003	-	1.0-1.15	<0.7	<0.6	0.05-0.20	<0.10	-	-	-	<0.15
3005	0.20-0.6	1.0-1.15	<0.7	<0.6	<0.30	<0.25	<0.10	<0.10	-	<0.15
3105	0.20-0.8	0.30-0.8	<0.7	<0.6	<0.30	<0.40	<0.20	<0.10	-	<0.15
5005	0.50-1.1	<0.20	<0.7	<0.30	<0.20	<0.25	<0.10	-	-	<0.15
5052	2.2-2.8	<0.10	<0.40	<0.25	<0.10	<0.10	0.15-0.35	-	-	<0.15
5082	4.0-4.9	0.40-1.0	<0.40	<0.40	<0.10	<0.25	0.05-0.25	<0.15	-	<0.15
5754	2.6-3.6	<0.50	<0.40	<0.40	<0.10	<0.20	<0.30	<0.15	-	<0.15
6060	0.35-0.6	<0.10	0.10-0.30	0.30-0.6	<0.10	<0.15	<0.05	<0.10	-	<0.15
6061	0.8-1.2	<0.15	<0.07	0.40-0.8	0.15-0.40	<0.25	0.04-0.35	<0.15	-	<0.15
6063	0.45-0.9	<0.10	<0.35	0.20-0.6	<0.10	<0.10	<0.10	<0.10	-	<0.15
6082	0.6-1.2	0.40-1.0	<0.50	0.7-1.3	<0.10	<0.20	<0.25	<0.10	0.04-0.35	<0.15
7075	2.1-2.9	<0.30	<0.50	<0.40	1.2-2.0	5.1-6.1	0.18-0.28	<0.20	-	<0.15

\* Chemical composition of products: Prepared according to EN573, ASTM B239, ASTM B928 standards.

\* Production process: carried out in accordance with EN573, ASTM B239, ASTM B928 and AMS, DIN, AA standards.



## MECHANICAL PROPERTIES OF SHEET ALLOYS

Condition	Yield Strength N/mm <sup>2</sup> (min)	Tensile Strength Limit (N/mm <sup>2</sup> )	Elongation N/mm <sup>2</sup>		Hardness (HB)Min.
			Thickness(mm)	% Min.	

### ALLOY : 1050

0	20	65-95	0.20-0.50 0.51-1.50 1.51-3.00	20 22 26	20
H12	65	85-125	0.20-0.50 0.51-1.50 1.51-3.00	2 4 5	28
H14	85	105-145	0.20-0.50 0.51-1.50 1.51-3.00	2 3 4	34
H16	100	120-160	0.20-0.50 0.51-1.50 1.51-3.00	1 2 3	39
H18	120	140 min.	0.20-1.50 1.51-3.00	1 2	42
H19	130	150 min.	0.20-3.00	1	45
H22	55	85-125	0.20-0.50 0.51-1.50 1.51-3.00	4 5 6	27
H24	75	105-145	0.20-0.50 0.51-1.50 1.51-3.00	3 4 5	33
H26	90	120-160	0.20-0.50 0.51-1.50 1.51-3.00	2 3 4	38
H28	110	140 min.	0.20-1.50 0.51-3.00	2 3	41

<b>Usage Areas</b>	Household Appliances, Kitchen Equipment, Transportation Industry, Insulation, Tube Body, Label, Filter
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### ALLOY : 3105

H14	130	150-200	0.20-3.00	2	48
H16	160	175-225	0.20-0.50 0.51-3.00	1 2	56
H18	180	195 min.	0.20-3.00	1	62
H19	190	215 min.	0.20-1.50	1	67
H24	120	150-200	0.20-1.50 1.51-3.00	4 5	47
H26	150	175-225	0.20-3.00	3	55
H28	150	175-225	0.20-1.50	2	61

<b>Usage Areas</b>	Facade and Roof Coatings, Pressure Vessels, Electronics Industry, Refrigeration Industry
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## MECHANICAL PROPERTIES OF SHEET ALLOYS

Condition	Yield Strength N/mm <sup>2</sup> (min)	Tensile Strength Limit (N/mm <sup>2</sup> )	Elongation N/mm <sup>2</sup>		Hardness (HB) Min.
			Thickness(mm)/	% Min.	

### ALLOY : 5005

0	35	100-145	0.20-0.50 0.51-1.50 1.51-3.00	15 19 20	29
H12	95	125-165	0.20-1.50 1.51-3.00	2 4	39
H14	120	145-185	0.20-1.50 1.51-3.00	2 3	48
H16	145	165-205	0.20-0.50 0.51-1.50 1.51-3.00	1 2 3	52
H18	165	185 min.	0.20-0.50 0.51-3.00	1 2	58
H19	185	205 min.	0.20-0.50 0.51-3.00	1 2	64
H22	80	125-165	0.20-0.50 0.51-1.50 1.51-3.00	4 5 6	38
H24	110	145-185	0.20-0.50 0.51-1.50 1.51-3.00	3 4 5	47
H26	135	165-205	0.20-0.50 0.51-1.50 1.51-3.00	2 3 4	52
H28	160	185 min.	0.20-0.50 0.51-1.50 1.51-3.00	1 2 3	58

#### Usage Areas

Bus and passenger car bodies, manufacture of fuel and oil tanks, hydraulic tubes, production of weldless pressure boilers, grain silos, roofing applications, construction of grain shovels, in all applications that require strength and corrosion resistance as a fork material, refrigerator bodies, production of zippers, in marine It can be used in all kinds of applications in contact with water, storage and process tanks used in chemicals, hydrogen peroxide and food industry.





## MECHANICAL PROPERTIES OF SHEET ALLOYS

Condition	Yield Strength N/mm <sup>2</sup> (min)	Tensile Strength Limit (N/mm <sup>2</sup> )	Elongation N/mm <sup>2</sup>		Hardness (HB) Min.
			Thickness(mm)/	% Min.	

### ALLOY: 5754

0/H111	80	190-240	0.20-0.50 0.51-1.50 1.51-3.00	12 14 16	52
H12	170	220-270	0.20-0.50 0.51-1.50 1.51-3.00	4 5 6	66
H14	190	240-280	0.20-0.50 0.51-1.50 1.51-3.00	3 3 4	72
H16	220	265-305	0.20-0.50 0.51-1.50 1.51-3.00	2 3 3	80
H18	250	290 min.	0.20-0.50 0.51-1.50 1.51-3.00	1 2 2	88
H22/H32	130	220-270	0.20-0.50 0.51-1.50 1.51-3.00	7 8 10	63
H24/H34	160	240-280	0.20-0.50 0.51-1.50 1.51-3.00	6 6 7	70

#### Usage Areas

Bus and passenger car bodies, the manufacture of fuel and oil tanks, hydraulic tubes, production of weldless pressure boilers, grain silos, roofing applications, construction of grain shovels, in all applications that require strength and corrosion resistance as a fork material, refrigerator bodies, production of zippers, in marine It can be used in all kinds of applications in contact with water, storage and process tanks used in chemicals, hydrogen peroxide and food industry.

**“ Strong Stock, Fair Price, Fast  
Delivery, Satisfied Customer ”**

# Quality Certificates

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Can Alüminyum has all the quality system documents and certificates demanded by the relevant market for the products it sells.

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↘ ISO 50001	Energy Management System Certificate
↘ IATF 16949: 2016	Automotive Quality Management System Certificate
↘ ISO 9001: 2015	Quality Management System Certificate
↘ ISO 14001: 2015	Environmental Management System Certificate
↘ TS 18001: 2014	Occupational Health and Safety Certificate
↘ CE Belgesi	European Certificate of Conformity
↘ TS EN 485 - 1	TSE Certificate of Conformity
↘ TS EN 1386	TSE Certificate of Conformity
↘ Qualanod	Architectural Anodizing Standard
↘ Qualicoat	Electrostatic Powder Coating Standard
↘ EN 15088 - 2344 - CPR	Factory Production Control Certificate
↘ LLOYDS Register	Approved Marine Alloys
↘ DNV GL	Approved Marine Alloys

# Competencies

## »PROFESSIONAL TEAM

The strongest aspect of our company is that it has trained, experienced and sincere personnel, which it has trained in-house with many trainings.

## »STRONG STOCK

Can Alüminyum has adopted the principle of providing fast and qualified service that exceeds customer expectations with its strong stocks in different alloys, different conditions, different thicknesses and sizes that can appeal to almost all areas of the industry.



## »STRONG COOPERATIONS

Can Alüminyum achieves its long-term commercial success thanks to long-term collaborations with distinguished companies that are the leaders of the sector.

## »LASER CUTTING

Our company responds to your metal processing requests in a fast and qualified manner with its ability to make efficient and

precise cuts in thin and thick sheets with its newly added high-tech fiber laser machine.



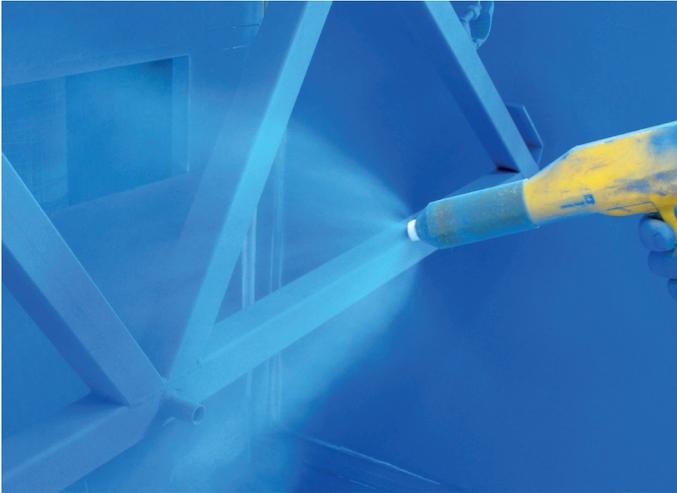
## »CUT-BENDING (GUILLOTINE-ABKANT)

Your aluminum and stainless plates of different thicknesses and sizes can be meticulously cut and bent in high-precision, technological machines.



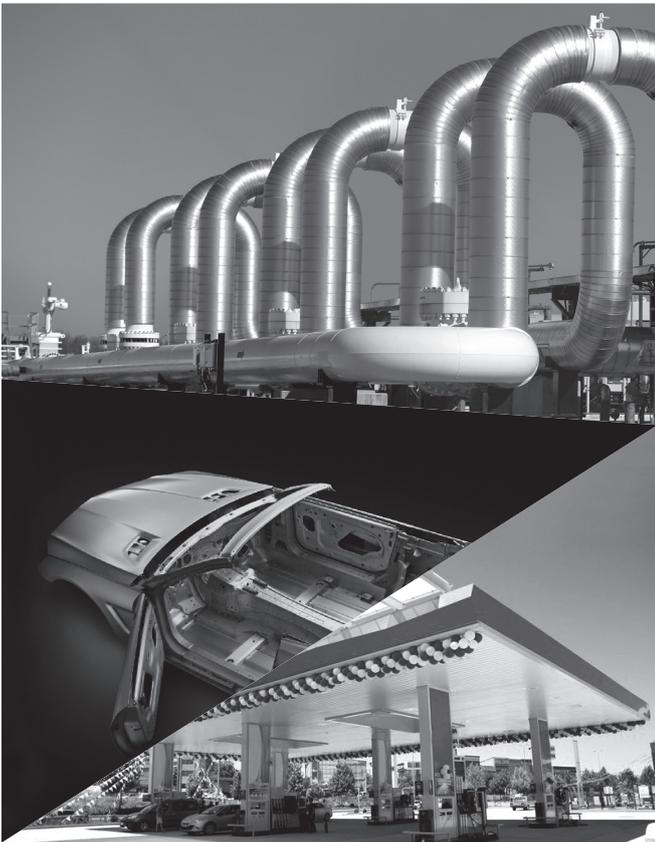
### » PVC COATING

In line with customer requests, PVC protection coating service is provided against possible damages caused by cutting and processing for sheet materials up to 1500 mm width and 3 mm thickness.



### » ELECTROSTATIC POWDER COATING

All kinds of aluminum profiles and plates can be coated at high standards in our own facilities according to the colors you choose from the catalog.



### » EXTRUSION PROFILE PRODUCTION

We have an extrusion facility with a production capacity of 24.000 tons/year, with 4 production lines of 910, 1100, 2100 and 3500 U.S. tons, established on an area of 110.000m<sup>2</sup>.



### » TECHNICAL CONSULTING

Our expert engineers in our registered R&D center are able to provide our customers the highest level of technical support. With the technological measuring devices in our R&D center, hardness, alloy, strength and ultrasonic crack control tests of aluminum profiles and flat products can be performed.





## PRODUCTS

Coil	
Alloy	1050 – 3003 – 3105 – 5754 – 5005
Surface	Plain, Embossed, Tiny Baklava
Condition	H14 – H0 – H22 – H111
Thickness	0.30mm - 2.00mm
Width	15mm - 2000mm

Plate (Thick Alüminyum)	
Alloy	5754 – 5083 – 6082 – 6061 – 7075
Condition	H111 – H22 – T651 – T6 vb.
Thickness	8 mm - 300 mm
Most	1000 – 2500 mm
Size	500 – 6000 mm

Treated Plates	
Alloy	1050 – 5754
Surface	5 Line, Diamond, Shiny, Brass Pattern
Condition	H244-H18
Thickness	1.50 mm - 5.00 mm
Width	1000 - 1250 - 1500 - 2000 mm

Perforated Coils	
Alloy	1050 – H14
Thickness	0.40 mm - 1.00 mm
Width	1000*R

Powder Coated Materials	
Alloy	1000 – 3000 – 5000 Serisi
Condition	H0 – H14 – H22 – H24 – H18 – H28
Paint Types	Polyester, PVDF, Plastisol, Polyurethane
Width	1000 mm - 1200 mm

Foil	
Alloy	1050 – 8006 – 8011 – 8079 – 7072
Condition	H0 – H22 – H24 – H19 – H14

Aluminum Sheets	
Alloy	1050 – 3003 - 5005 - 5754 - 5083
Surface	Plain, Embossed
Condition	H0 - H14 - H22 - H111
Thickness	0,40 mm - 7,00 mm
Width	1000 - 1200 -1250 -1500 - 2000

Mosques Coils	
Alloy	1050 - H0
Thickness	0,70 mm - 0,80 mm - 1,00 mm
Most	1000*R

Perforated Sheets	
Pattern	Square, cocoon, honeycomb, round
Thickness	0.80 mm - 1.00 mm
Most	1000 mm - 1250 mm
Size	2000 mm - 2500 mm

Aluminum Extrusion Profiles	
Industry Profiles	
Sigma Profiles	
Furniture Profiles	
Construction Profiles	

Aluminum Anodized Sheets	
Alloy	5005 – 5754
Surface	Matt, satin, glossy
Condition	H14 – H24 – H22
Thickness	0,40 mm - 3 mm
Width	1000 mm -1500 mm

Aluminum Trapeze	
Alloy	1050 – 3105 – 3003
Surface	Plain, Embossed, Painted
Thickness	0,50 mm - 1,00 mm
Form	38/151

  
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