



HENAN FLAIT ALUMINUM CO., LTD.

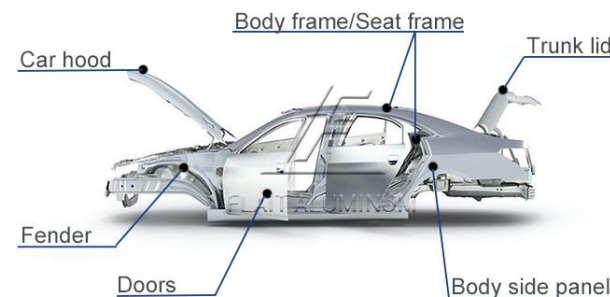
Flait Aluminum is committed to product R&D, production, sales and service.

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Automobile Aluminum Sheet Plate

Aluminum alloy sheet has the advantages of light weight, high strength, good stretchability, corrosion resistance, etc. The formability and production performance of aluminum sheet are very close to those of steel sheet, so it is very popular in the automobile and auto parts processing industry. Aluminum alloys can also be applied in body, frame, engine, door, cover, fuel tank and compartment body according to the different alloys added, different proportions and different manufacturing processes, which can effectively reduce the overall weight of the vehicle, thereby improving the comprehensive performance.



Commonly used alloys for automotive aluminum sheets are 5*** series and 6*** series. The main aluminum sheets plates for automobiles are: 5182 aluminum sheets plates, 5083 aluminum sheets plates, 5086 aluminum sheets plates, 5754 aluminum sheets plates, 5052 aluminum sheets plates, 5454 aluminum sheets plates, 6061 aluminum sheets plates, 6063 aluminum sheets plates, 6082 aluminum sheets plates, etc.



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Product Specification

Aluminum alloys for car body

Alloy	Temper	Thickness (mm)	Width(mm)	Length (mm)	Standard
5182	O, H111	0.50 – 3.50	1200 - 2650	500 - 16000	EN/ASTM
5083	H32, H111	4.00 – 8.00	1500 - 2650	2000 - 16000	GB/EN/ASTM
5754	O	1.00 – 8.00	1200 - 2650	500 - 12000	GB/EN/ASTM
5052	O, H32, H26, H34	0.30 – 3.50	1200 - 2650	500 - 12000	GB/EN/ASTM

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
5182	0.20	0.36	0.15	0.20-0.50	4.00-5.00	0.10	0.25	0.10	Remainder
5083	0.40	0.40	0.10	0.40-1.00	4.00-4.90	0.05-0.25	0.25	0.15	Remainder
5754	0.40	0.40	0.10	0.50	2.60-3.60	0.30	0.20	0.15	Remainder
5052	0.25	0.40	0.10	0.10	2.20-2.80	0.15-0.35	0.10	-	Remainder



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Aluminum alloys for car body structural parts

Alloy	Temper	Thickness(mm)	Width(mm)	Length(mm)	Standard
6061	O, T4, T6, T651	0.30 – 500	100 - 2400	500 - 16000	GB/EN/ASTM
6063	O, T4, T6, T651	0.30 – 500	100 - 2400	500 - 16000	GB/EN/ASTM
6082	O, T4	0.30 – 3.50	100 - 2400	500 - 16000	GB/EN/ASTM
2024	O, T4	0.50 – 3.50	800 - 2400	800 - 5500	GB/EN/ASTM

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al
6061	0.40-0.80	0.70	0.10-0.40	0.15	0.80-1.20	0.04-0.35	0.25	0.15	Remainder
6063	0.20-0.60	≤0.35	≤0.10	≤0.10	0.40-0.90	≤0.10	-	≤0.10	Remainder
6082	0.70-1.30	0.50	0.10	0.40-1.00	0.60-1.20	0.25	0.20	0.10	Remainder
2024	0.50	0.50	3.80-4.90	0.30-0.90	1.20-1.80	0.10	0.25	0.15	Remainder



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Aluminum alloys for other car parts

Alloy	Temper	Thickness(mm)	Width(mm)	Length(mm)	Standard	Uses
1050	O	0.30 – 3.50	100 - 2400	500 - 16000	GB/EN/ASTM	Engine heat shields and parts, water tanks, exhaust pipe heat shield parts, etc.
1060	O	0.30 – 3.50	100 - 2400	500 - 16000	GB/EN/ASTM	Headlight lampshades, interior panel, etc.
1100	O	0.30 – 3.50	100 – 2400	500 – 16000	GB/EN/ASTM	Radiator plate, component heat shield, etc.
3003	F,O,H12,H14, H16,H18,H22,etc.	0.20 – 500	20 - 2650	500 – 16000	GB/EN/ASTM	Energy power battery shell

Alloy	Si	Fe	Cu	Mn	Mg	V	Zn	Ti	Al
1050	0.25	0.40	0.05	0.05	0.05	-	0.07	0.05	≥99.50%
1060	0.25	0.35	0.05	0.03	0.03	0.05	0.05	0.03	≥99.60%
1100	0.95		0.05-0.20	0.05	-	-	0.10	-	Remainder
3003	0.60	0.70	0.05-0.20	1.00-1.50	-	-	0.10	-	Remainder



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Application

5754 Aluminum sheet plate and 5052 aluminum sheet plate for automobile fuel tanks.

5454 Aluminum sheet plate for automobile engines.

6061 Aluminum sheet plate is used to make the frame and seat frame structure.

5083 Aluminum sheet plate and 5182 aluminum sheet plate for automobile hood.

6061 Aluminum sheet plate and 5182 aluminum sheet plate for car doors.

6061 Aluminum sheet plate for front and rear anti-collision beams (bumpers) of automobiles.

5083 Aluminum sheet plate and 5182 aluminum sheet plate for car trunk.

5182 Aluminum sheet plate for the fender of the car.

6061 Aluminum sheet plate for automobile wheels.

1050 Aluminum foil and 1060-O aluminum foil is used to make automobile heat shields.

3003 Aluminum coil is used for the battery casing.

1060 Aluminum coils are used for the soft connection of power batteries.

The above mentioned aluminum product is produced according to national standard specifications. Please contact us for a free quote!

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