

Aluminum For Tanker Body | Haomei Alu Sheet Plate

The aluminum tank body is made by aluminum alloy 5083 5182 and aluminum alloy 5454, with the advantages of light tare weight, high safety, less operation cost. It is a popular products among the fuel and oil transporter. It is used to transport highly flammable light oil on road.

The **aluminum plate for tanker body** alloy has a low density and a high strength. The use of aluminum alloy tankers is lighter than that of carbon steel tankers, which reduces fuel consumption and wear on tires during transportation, thereby reducing daily operating expenses and maintenance costs.

Specification of Aluminum For Tanker Body:

Alloy No.		Thickness (mm)	Width (mm)	Length (mm)
5083	Min.	4	1000	2000
	Max.	8	2800	12600
5182	Min.	4	1000	2000
	Max.	8	2800	12600
5454	Min.	4	1000	2000
	Max.	8	2800	12600

Chemical Composition of Aluminum Plate For Tanker Body:

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Others(%)	
									Each	Sum
5083	0.20	0.35	0.15	0.20-0.50	4.0-5.0	0.10	0.25	0.10	0.05	0.15
5754	0.40	0.40	0.10	0.05	2.6-3.6	0.30	0.20	0.15	0.05	0.15
5454	0.25	0.40	0.10	0.50-1.0	2.4-3.0	0.05-0.20	0.25	0.20	0.05	0.15
5182	0.20	0.35	0.15	0.20-0.50	4.0-5.0	0.10	0.25	0.10	0.05	0.15
5059	0.25	0.40	0.10	0.10	2.2-2.8	0.15-0.35	0.10	/	/	/

Mechanical Properties of Aluminium Plate For Tanker Body:

Alloy	Temper	Yield Strength Rp0.2(Mpa)	Tensile Strength Rm(Mpa)	ElongationA50(50%)
5083	O/H111	≥145	290-370	≥17
	H32	≥215	305-385	≥12
5754	O/H111	190-240	≥80	≥16
	H112	≥190	≥80	≥7
5454	H32	≥250	≥180	≥8
5182	O/H111	≥125	280-350	≥26
5059	O/H12/H32	401	280	16.2



Different Type Aluminum Tanker Body Plate:

Type	Standard Plate	High Class Plate	Bright Plate	Mirror Plate
Surface	★★★☆☆	★★★★☆	★★★★☆	★★★★★
Roughness	0.5-0.8	0.3-0.5	0.1-0.3	≤0.04
Product Description	Smooth surface Defect deepness <Minus Tolerances Of Thickness	Fine and smooth surface No or only very little colour aberration	Bright, fine and Smooth surface No colour aberration and chatters	Mirror reflective Surface Reflectance
Applicable Standards	GB/T 3880	EN14286 ASTM B209 EN485 Customer special requirements	EN14286 ASTM B209 Customer special requirements	EN14286 ASTM B209 Customer
Application	Use directly or After brushing Tanker Body, Tanker Head Wall Partition, Resistance Plate	Use directly Tanker Body, Tanker Head Wall Partition,	Use directly Tanker Body, Tanker Head	Use directly Tanker Body, Tanker Head

Advantages of Aluminum Sheet For Tanker Body:

1. Good elongation, high strength, good compatibility with gasoline and diesel, which can avoid high-quality pollution.
2. Corrosion resistance, no need to do surface metal treatment for anti-corrosion, even if the car body is scratched, it will not rust.
3. The service life is long, and the old aluminum alloy tank with better maintenance can also be used on the new chassis, even if the tank is scrapped, it has a higher recycling value.

Application of Aluminium Sheet For Tanker Body:

- 1) Oil tanker
- 2) Fuel tanker
- 3) LNG storage tank
- 4) Semi Trailer

