

5083 Aluminum Plate For Tanker - Haomei

Haomei **5083 aluminium plate for oil tanker** have excellent corrosion resistance and welding performance, with wide application in automotive, railway transportation, oil and chemical industrial etc. Haomei aluminium is able to offer 5083 aluminium plate which is used for oil tank body and pressure container body.

5083 aluminum for tanker with magnesium as main alloy element, is a low-magnesium and non-heat-treatable alloy, has good formability and corrosion resistance performance, highly suitable for chemicals and fuel tanker.

Specification of 5083 Aluminum Plate For Tanker:

Product Type		Thickness (mm)	Width(mm)	Length(mm)
Plate	Wide Plate	4-8	2200-2600	2000-12000
	Standard Plate	4-8	1500-2200	2000-12000
Coil	Wide Plate	4-8	2200-2600	-
	Standard Plate	4-8	1500-2200	-

Quality Control Points

Part	Control Points		
Barrel, head	Surface quality Mechanical Property Thickness tolerance	--	Flatness
Wall partition, Resistance plate	Mechanical Property Thickness tolerance	Surface Quality	Flatness

Chemical Composition of 5083 Aluminium Plate For Tanker:

Alloy series	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti
5083	Min.	—	—	—	0.40	0.05	—	—
	Max.	0.40	0.40	0.10	1.0	4.90	0.25	0.15

Mechanical Properties of 5083 Aluminum Plate For Oil Tanker:

Alloy	Temper	Yield Strength	Tensile Strength	Elongation	180°Min. Bend Radius	Standard
5083	O/H111	≥145	290-370	≥17	1.5t	EN14286
5083	H32	≥215	305-385	≥12	--	ASTM B209

Advantages of 5083 Aluminum For Tanker:

1. Aluminum alloy sheet 5083 has good plasticity, is easy to process, and has excellent forming properties.
2. Aluminum alloy plate 5083 has strong weldability, gas welding, arc welding, contact spot welding and wire welding can be used.
3. Aluminum alloy plate 5083 has anti-skid, anti-rust functions and strong corrosion resistance.
4. In the production process of 5083 aluminum plate, Haomei Aluminum added a small amount of Be, which reduced the tendency of ingot cracking and improved the surface quality of the rolled plate.

Application of 5083 Aluminium For Tanker:





ALUMINUM FOR TANKER

nydia@aluminumhm.com

5083 aluminum plate is widely used in transportation and storage of chemical industry, such as oil tanker, fuel tanker, LNG tank truck, CNG tank truck, chemical liquid and gas tanker etc.

