

5083 Aluminum Sheet Plate

5083 Aluminum sheet plate belongs to the Al-Mg series alloy, the main element is magnesium, Mg content can reach between 4.0% and 4.9%, usually the middle value is 4.5% in the production process, so 5083 aluminum plate is also called Almg4.5 aluminum plate. The product process of 5083 aluminum plate, through the determination of alloy composition, optimization of melting and casting process, homogenization heat treatment and rolling process test, the product performance is good and



meets the requirements of users, especially the aluminum plate for ships, rail transit, automobiles, molds, etc. processing of complex parts, and the application prospect is extremely broad.

Product Specification

Alloy	5083 Aluminum Sheet Plate
Temper	F,O,H14,H16,H18,H19,H22,H24,H26,H28,etc.
Thickness(mm)	0.15-600
Width(mm)	100-2650
Length(mm)	500-16000
Surface treatment	Rolling, mirror, patterned aluminum plate
Standard	ASTM-B-209M,BS EN 485-2,BS EN 573-3,GB/T3880-2008
Package	Export packaging (protective film, interleaved paper)

Application	Ship plates, LNG storage tanks, oil tankers, cement tankers, gas storage tanks, GIS shells, car body skins, flange materials, etc.
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Chemical Composition											
Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Zr	Al
5083	0.40	0.4	0.10	0.40-1.00	4.00-4.90	0.05-0.25	-	0.15	0.15	-	Remainder

Mechanical Properties					
Alloy	Temper	Tensile strength Rm (Mpa)	Yield strength Rp0.2 (MPa)	Elongation A(%)	Minimum Bending Radius of 180 Degree
5083	O/H111	≥275	≥125	≥16	-
	H116	≥305	≥215	≥10	-
	H32	305-385	≥215	≥12	-
	H112	≥275	≥125	≥10	-

Features

- 5083 Aluminum sheet plate has low density, light weight, high tensile strength, high elongation, good corrosion resistance and durability, specially used for marine aluminum sheet, light automobile aluminum sheet and tank truck aluminum sheet.
- 5083 Aluminum plate can be used in vehicles to reduce the weight of the vehicle body,



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thereby reducing the inertia of the vehicle body and improving transportation efficiency. At the same time, it can also achieve the effect of energy saving and emission reduction.

3. The surface of 5083 aluminum plate has no oil spots, no waves, no scratches, no roll marks, neat trimming, and no burrs.

Application

1. 5083 aluminum plate has a wide range of applications, and is generally used for ships, vehicle materials, automobile and aircraft plate weldments, pressure vessels that require strict fire protection, transportation equipment, drilling equipment, TV towers, etc.
2. 5083 aluminum plate is used in ships: common state H116/H321/H112, usually used for yachts, cruise ship decks, engine pedestals, ship sides, ship bottom outer plates and other components.
3. 5083 aluminum plate is used for vehicles: aluminum alloy tank car body/tank body, automobile fuel tank, gas storage tank, bus skin, coal truck, automobile roof/bottom guard plate, etc.
4. 5083 medium-thick/ultra-wide aluminum plates are generally used in the manufacture of molds, LNG storage tanks, flange materials, GIS high-voltage switch housings, precision machining, etc.

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

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