

Marine Grade Aluminum 5383

The marine grade aluminum 5383 aluminum plate is an upgraded version of the marine grade aluminum 5083. The former is highly resistant to corrosion and the hardness is increased by 10%. The yield point of the welded structure increased by 15%. Highly corrosion resistant 5383 aluminum plate is largely used around salt water for building ships and oil rigs. It maintains its strength in extreme cold, so it's also used to make cryogenic pressure vessels and tanks.

Due to its shape, weldability and yield characteristics, the 5383 and 5083 aluminum sheets are similar to those of large high-speed ship manufacturers. Haomei Aluminum's marine grade 5383 aluminum plate are the main products in the field of marine aluminum plate, and occupy an important position in shipbuilding. Certificates of other class societies like BV, DNV/GL, CCS, ABS ,LR, KR, RINA etc, can be provided upon request.

Specifications of marine grade 5383 aluminium plate:

Alloy	Temper	Thickness (mm)	Width (mm)	Application
5083	O/H111/H112/H116/H321	3-10	≤2600	shipbuilding
5383	O/H111/H112/H116/H321	10-50	≤3600	Marine, ship
5383	O, H111	3-10	≤2600	tanker
5383	O, H12, H14, H16, H18, H19, H22, H24, H26, H28, H32, H34, H36, H38, H111, H112, H114, H116, H321	0.5-500	20-2650	LNG storage tanks, gas storage cylinders, GIS shells, car body skins, flange materials, etc.

Chemical Composition of 5383 aluminum sheet plate:

Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Zr	Ti
5383	0.4	0.4	0.1	0.4-1.0	4.0-4.9	0.05-0.2	0.25	—	—

Mechanical properties of marine grade 5383 aluminium plate:

Alloy	Temper	Tensile strength Rm(Mpa)	Yield strength Rp0.2 (Mpa)	Elongation A (%)	Exfoliation corrosion	Intergranular corrosion

					mg/cm2	
5383	O/H111/H112	≥275	≥125	≥16	—	—
5383	H116	≥305	≥215	≥10	≤PB	≤15
5383	H321	305-385	215-295	≥12	≤PB	—

Features of marine grade aluminium plate 5383:

- 1, low density, high strength, widely use for Marine, lightweight automobile, tank car area;
- 2, 5383 aluminum plate is corrosion-resistant, durable, economical and environmentally friendly;
- 3.Added trace Beduring the production process of marine aluminum plate 5383, which reduced the crack tendency of the ingot and improved the surface quality of the rolled plate;
4. Certified by China Classification Society (CCS), Norwegian Classification Society (DNV), American Classification Society (ABS), British Classification Society (LR), French Classification Society (BV);
- 5.No oil spots, no waves, no scratches, no roller marks, neat cutting edge, and no burrs on the surface of 5383 aluminum plate.

Application of Marine Aluminum Plate 5383:

Aluminum Alloy No.	Application
5083, 5086	Side Plating, Bottom Plate
5083	Keel, Boat Ribs, Engine Pedestal, Balwark
5083, 6061	Ribbed Plate, Bulkhead,
5052, 5083, 5086, 5454	Deck
5083, 5052	Pilot House, Funnel
3003, 3004, 5052	Roof and Side Plates

Why choose us?

1. We are specialized in aluminum products more than 20 years!
2. Our policy is “Honest Operation, Win-win Development.”
3. Professional sales team. Good English capabilities and communication skills.
4. Products are supplied to over 50 countries.
5. Strong advantage for aluminium processing line.

6. Professional QC and R&D teams to assure high quality.