



Marine Grade Aluminum 5052 - Haomei Aluminium

Marine grade aluminum 5052 plate sheet belongs to Al-Mg alloy, it has good processing performance, good corrosion resistance. Rust proof aluminum alloy 5052 is a most widely used, this alloy has high strength, especially the anti fatigue strength, ductility and high corrosion resistance, in the semi cold hard plastic is good, do not 5052 alloy used for the internal pressure of the beverage cover, the status of H19 material, do first oxidation treatment to improve coating adhesion and corrosion resistance, both sides painted after the tank cover forming processing, my company production of 5052 alloy lid material with good surface quality, stable performance.

Marine grade aluminium 5052 is a non-heat treatable alloy with excellent finishing qualities. Aluminum 5052 offers better corrosion resistance than most aluminum alloys, especially to salt water and marine atmospheres. This alloy can be readily welded using most common techniques and is in fact offers some of the best welding characteristics of all aluminum alloys. Marine grade aluminum produced by Haomei Aluminum has passed multiple classification society certifications, CCS, DNV, ABS, LR and BV.

5052 Products Description

Alloy	Temper	Thickness (mm)	Width (mm)	Length (mm)	Final usage	Standard
5052 Plate Sheet	H32, H34, H111, H112, H114, H116, H321	0.15-600	20-2600	500-16000	For marine sheet metal parts	GB/T 3618-198

5052 marine grade aluminum sheet Application in marine filed

1. Marine plate
2. Inner and outer siding
3. Ship Structural Part
4. Side of ship
5. External board of ship bottom
6. Operation room funnel
7. Ship deck
8. Side wall or top of the container

5052 marine grade sheet properties:

Material	size/thickness
5052 O	1500*3000mm,1250*2500mm,thickness:1.0mm,1.2mm,1.5mm,2.0mm,3.0mm
5052 H32	1250*2500MM,Thickness:0.8~8mm
5052 h112	1500*3000mm/1250*2500mm. thickness:8~120mm

5052 Chemical Composition

Cu	Mg	Mn	Fe	Si	Zn	Ti	Cr	Other	Al
0.10	2.2~2.3	0.1	0.4	0.25	0.1	0.15	0.15~0.35	0.15	Remainder

Mechanical Properties 5052 Material

Alloy	Yield Strength $\sigma_{0.2}$ (Mpa)	Tensile Strength σ_b (Mpa)	Enlogation(%)
5052	Min.120	Min.270	Min.12

Performance advantage of marine grade aluminum plate 5052:

- 1, 5052 Aluminum Alloy plate sheet has high plasticity, corrosion resistance, suitable for use in marine environment;
- 2, The surface of the aluminum plate without peeling, bubble, surface rough and local mechanical damage, the surface of the aluminum plate without cracks and corrosion spots and trace nitrate;
- 3, All the Aluminum 5052 supplied by Haomei Aluminium meets or exceeds a number of leading industry specifications including those from AMS, ASTM, MIL and QQ.
- 4, Haomei carries a wide variety of shapes and sizes of Aluminum 5052 such as plate and sheet. To discover how you can benefit from Aluminum 5052 from Haomei Aluminium, please contact us directly today.

