

5086 Aluminum Sheet Plate

5086 aluminum plate belongs to the AL-Mg series alloy, magnesium content between 3.5% and 4.5%, is a kind of anti-rust aluminum and non-heat-treatable alloy with high corrosion resistance, good weldability and medium strength. 5086 Aluminum plate is higher strength than 5052, and better corrosion resistance than 5083, and its mechanical properties change significantly with hardening and temperature.5086 aluminum plate is widely used in occasions that require high corrosion



resistance, good weldability and medium strength, such as ships, tank trucks and automobiles; pressure vessels, refrigeration devices, televisions towers, loading and exploration equipment, transportation equipment, etc.

Product Specification

Alloy	5086 Aluminum Sheet Plate
Temper	O,H12,H14,H16,H18,H19,H22,H24,H26,H28,H32,H34, H36,H38,H111,H112,H114,H116,H321,etc.
Thickness(mm)	0.15-600
Width(mm)	100-2650
Length(mm)	500-16000
Surface treatment	Rolled, patterned aluminum plate
Package	Export packaging (protective film, interleaved paper)
Certificate	CCS, DNV, ABS, BV



HENAN FLAIT ALUMINUM CO., LTD.

Flait Aluminum is committed to product R&D, production, sales and service.

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Application	Automobiles, ships, oxidizing materials, fuel tank materials, door panels, etc.
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Chemical Composition											
Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Zr	Al
5086	0.40	0.50	0.10	0.20-0.70	3.50-4.50	0.05-0.25	-	0.25	0.15	-	Remainder

Mechanical Properties					
Alloy	Temper	Tensile strengthRm (Mpa)	Yield strengthRp0.2 (MPa)	Elongation A(%)	Hardness
5086	O/H111	204-305	≥95	≥16	65
	H112	≥250	≥125	≥8	65-69
	H116/H321	≥275	≥195	≥10	81
	H32	275-335	185	5-10	80
	H24/H34	300-360	220	4-8	88
	H26-H36	325-385	250	3	96





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Features

1. 5086 Aluminum plate has low density, light weight, high tensile strength, high elongation, and good corrosion resistance. 5086 aluminum plate has good anti-corrosion ability to air, water (or salt water), petrochemical and so on. Also, it has strong corrosion resistance in extremely industrial, marine atmospheric environments and deep water.
2. 5086 Aluminum plate has medium strength and has good weldability.
3. 5086 aluminum sheet has no low temperature brittleness, which is suitable for low temperature equipment. Even below 0 ° C, the strength and plasticity of 5086 aluminum plate will not change with the increase or decrease of temperature.
4. Its elastic modulus is small, which can absorb large impact stress.
5. 5086 Aluminum plate has high recycling value.
6. The surface of 5086 aluminum plate has no oil spots, no waves, no scratches, no roll marks, neat trimming, and no burrs.

Application

5086 aluminum plate is generally used in applications that require high corrosion resistance, good weldability, and moderate strength. For example, weldable parts of ships (ship sides, bottoms, outboards, decks, etc.) and automobiles; it can also be used in pressure vessels, refrigeration equipment, TV towers, transportation equipment, etc. that require strict fire protection.

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

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