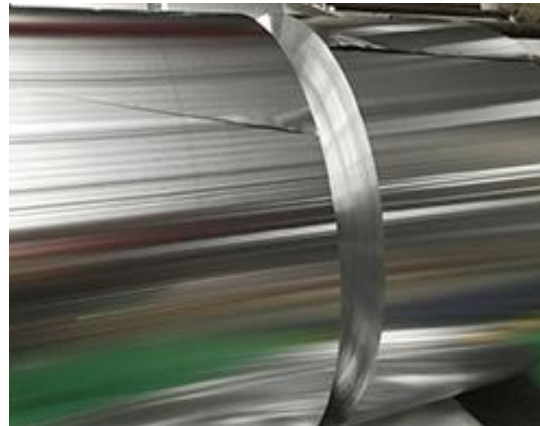


5086 Aluminum Coil

5086 Aluminum coil belongs to the AL-Mg series alloy, the magnesium content between 3.5% and 4.5%, which is a kind of anti-rust aluminum with high strength, low density, high tensile strength, high elongation, high corrosion resistance, good weldability and machinability, and is a good choice for marine vessels, offshore equipment and other important aluminum alloy products. The strength of 5086 aluminum coil is higher than that of 5052 aluminum alloy and slightly lower than that of 5083 aluminum alloy.



It is not strengthened by heat treatment, but becomes stronger by strain hardening or cold working of the material. As we all know, 5086, 5083, and 5052 aluminum alloys are widely used for marine grade aluminum materials. Among them, 5086 aluminum coil has excellent corrosion resistance, good weldability, surface treatment, and moderate strength. Generally, the tempers of commonly used for 5086 antirust aluminum coils are O, H111, H112, H116, H321, etc. 5086 Aluminum coil widely used in ship sides, decks, tank trucks, pressure vessels, transportation equipment, anodized materials, etc.

Product Specification

Alloy	5086 Aluminum Coil
Temper	F,O,H12,H14,H16,H18,H19,H22,H24,H26,H28,H32,H34,H36,H38,H111,H112,H114,H116,H321,etc.
Thickness(mm)	0.20-8.00
Width(mm)	100-2650
Length(mm)	C
ID	Ø505mm or customized



HENAN FLAIT ALUMINUM CO., LTD.

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

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Package	Eye to sky or Eye to wall
Certificate	DNV,ABS,CCS,BV
Standard	GBT, JIS, EN, ASTM
Application	Transportation equipment, decks, pressure vessels, etc.
Sample	Available

Chemical Composition											
Allo y	Si	Fe	Cu	Mn	Mg	Cr	N i	Zn	Ti	Z r	Al
508 6	0.4 0	0.5 0	0.1 0	0.20-0. 70	3.50-4. 50	0.05-0. 25	-	0.2 5	0.1 5	-	Remaind er

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/H3 21	≥275	≥195	≥10	81
	H32	275-335	185	5-10	80
	H24/H34	300-360	220	4-8	88





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	H26-H36	325-385	250	3	96
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Features

1. 5086 Aluminum coil has low density, high tensile strength, high elongation, and good corrosion resistance. 5086 aluminum coil can resist the corrosion of strong seawater, industrial atmosphere, petrochemical and other media.
2. 5086 Aluminum coil has medium strength and good weldability. 5086 aluminum alloy coil can be used to manufacture high-demand welding parts, and the welding forming effect is good.
3. The surface of 5086 aluminum coil has no oil spots, no waves, no scratches, no roll marks, neat trimming, and no burrs.

Application

5086 aluminum coils are commonly used in welding parts of ships and automobiles; they can also be used in pressure vessels, refrigeration units, TV towers, transportation equipment, etc. that require strict fire protection.

1. **Shipbuilding:** yachts, patrol boats, cargo ships, work boats, fish boats, etc.
2. **Car body:** subway train, dump truck, oil tank car body, etc.
3. Aluminum armor, aircraft welding parts.
4. Anodized material. The anodizing effect on the surface of the 5086 aluminum coil is very good, and at the same time, the surface hardness is greatly improved, and the wear resistance and corrosion resistance are enhanced. It is a very good anodizing material.

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

-----THIS IS THE END-----

