

## 5182 Aluminum Sheet Plate

5182 Aluminum sheet plate belongs to Al-Mg series alloy, Mg content can reach 4-5%, is a kind of anti-rust aluminum with a wide range of uses, which has good corrosion resistance, excellent weldability, good cold workability, and medium strength. It is widely used in automobile, shipbuilding, construction and industry. The performance of 5182 aluminum plate is similar to 5A02, because the magnesium content is slightly higher than 5A02, and a small amount of silicon is added, the weldability is better than 5A02; Also, the tensile strength and yield strength of 5182 aluminum sheet are slightly better than 5052 and 5083 aluminum alloys. Due to a small amount of Si is added, the welding performance of 5182 aluminum plate is very good with gas welding, argon arc welding, spot welding and seam welding. We can customize production according to user special needs, thickness range 0.15-600mm, width range 100-2650mm, length range 500-16000mm, can be produced into aluminum plate or aluminum coil.



### Product Specification

<b>Alloy</b>	5182 Aluminum Sheet Plate
<b>Temper</b>	O,H12,H14,H16,H18,H19,H22,H24,H26,H28,H32,H34,H36,H38,H111,H112,H114,H116,H321,etc.
<b>Thickness(mm)</b>	0.15-600
<b>Width(mm)</b>	100-2650
<b>Length(mm)</b>	500-16000
<b>Standard</b>	GB/T 3880, EN14286, EN485, ASTM B209, or according to customer's special requirements



# HENAN FLAIT ALUMINUM CO., LTD.

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

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<b>Package</b>	Export packaging (protective film, interleaved paper)
<b>Application</b>	Ship decks, ship panels, car body, car fuel tanks, electrical enclosures and drink cans.

Chemical Composition											
Alloy	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Zr	Al
5182	0.2 0	0.3 5	0.1 5	0.20-0.5 0	4.00-5.0 0	0.1 0	-	0.2 5	0.1 0	-	Remainder

Mechanical Properties					
Alloy	Temper	Tensile strengthRm (Mpa)	Yield strengthRp0.2 (MPa)	Elongation A(%)	Minimum Bending Radius of 180 Degree
5182	O/H111	280-350	≥125	≥26	-

## Features

1. 5182 aluminum plate has excellent corrosion resistance, high tensile strength, high yield strength, good cold workability and medium strength.
2. 5182 aluminum plate contains a small amount of Si, has excellent welding performance, and has a low tendency to crack during welding, can be welded by gas welding, argon arc welding, spot welding and seam welding.
3. The machinability of 5182 aluminum plate is good; the surface is beautiful after anodizing.
4. 5182 aluminum alloy has good rust resistance and is widely use.
5. The surface quality of 5182 aluminum plate is good, smooth and free of cracks, corrosion spots and nitrate traces.





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### **Application**

5182 aluminum plate is mainly used for low-load parts that require high plasticity and good weldability, and work in liquid or gaseous media. Such as car door, Hood, Shipline/bottom plate, deck, refrigeration equipment, tank car, oil tanks, various liquid containers; thin plate is used for can lids, pull rings of cans.

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

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