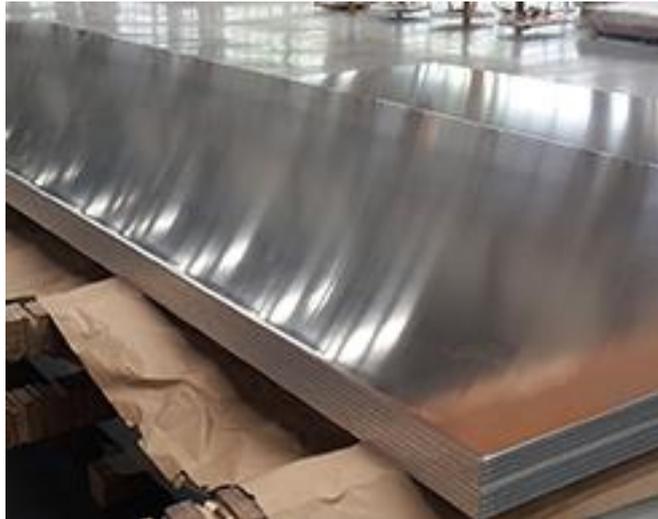


6082 Aluminum Sheet Plate

The 6082 aluminum plate, like the 6061 aluminum plate, contains Mg, Si, Cu and other metal elements, has good formability, weldability, machinability and corrosion resistance, has medium strength, and can still maintain good operability after annealing. 6082 Aluminum plate has similar but not identical mechanical properties to the 6061 alloy, and its temper T6 has higher mechanical properties; the tempers O and T4 of 6082 alloy are suitable for bending and forming, and its tempers T5 and T6 are suitable for good machinability requirements.



It is mainly used for processing raw materials, seamless aluminum tubes, structural profiles and custom profiles, etc. 6082 Aluminum sheet generally has very good processing characteristics and very good anodic reactivity.

Product Specification

Alloy	6082 Aluminum Sheet Plate
Temper	F,O,T4,T6,T651,etc.
Thickness(mm)	0.30-600
Width(mm)	500-2650
Length(mm)	500-16000
Application	Camera lenses, industrial molds, containers, mold, etc.



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Chemical composition												
Alloy	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Zr	Others	Al	
6082	0.7-1.3	0.50	0.1	0.4-1.0	0.6-1.2	0.25	0.20	0.10	-	Singl e	Tota l	Remaind er
										0.05	0.15	

Mechanical Properties				
Alloy & Temper	Tensile strengthRm (Mpa)	Yield strengthRp0.2 (MPa)	Elongation A(%)	Hardness
6082-T6	310	260	6	90

Alloy&Temper	Thermal expansion coefficient (20-100°C)/μm/m·k Rm/Mpa	Melting point range (°C) Rp0.2/Mpa	Conductivity 20°C(68°F) (%IACS)	Resistivity 20°C(68°F) Ωmm2/m	Density(20°C)(g/cm3) Ωmm2/m
60082-T6	23.5	621-654	57	0.0302	2.8

Features

1. 6063 aluminum plate has strong corrosion resistance, no tendency of stress corrosion cracking, excellent welding performance, and the corrosion performance in the welding area remains unchanged.
2. 6063 aluminum plate can be oxidized, the color and luster will not change after surface anodic oxidation treatment, and the appearance is beautiful.
3. The surface of the 6063 aluminum plate has no peeling, air bubbles, surface roughness and local mechanical damage, and the surface of the aluminum plate has no defects.





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Application

1. 6063 aluminum plate: used for automobile floor plates, auto parts, mobile phone accessories, etc.
2. 6063 aluminum medium and thick plate: used for automobile wheel hub, mold, structural parts of passenger car body, etc.
3. 6063 aluminum plate is mainly used to make the overall outline of the car body and the body of the tanker. As a high aluminum magnesium alloy, 6063 is a non-heat-treatable alloy with good strength, corrosion resistance, and good machinability. It can be used to manufacture aircraft fuel tanks, oil pipes, transportation vehicles, ships, etc. 6063 aluminum sheet can be used in various fields. In automobile manufacturing, it can be used as raw material for processing and manufacturing of car body parts, and can also be used as processing material for tank car body; in the field of construction, it can be used as decorative plate, anti-corrosion plate, and can also be used for deep processing.

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

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