



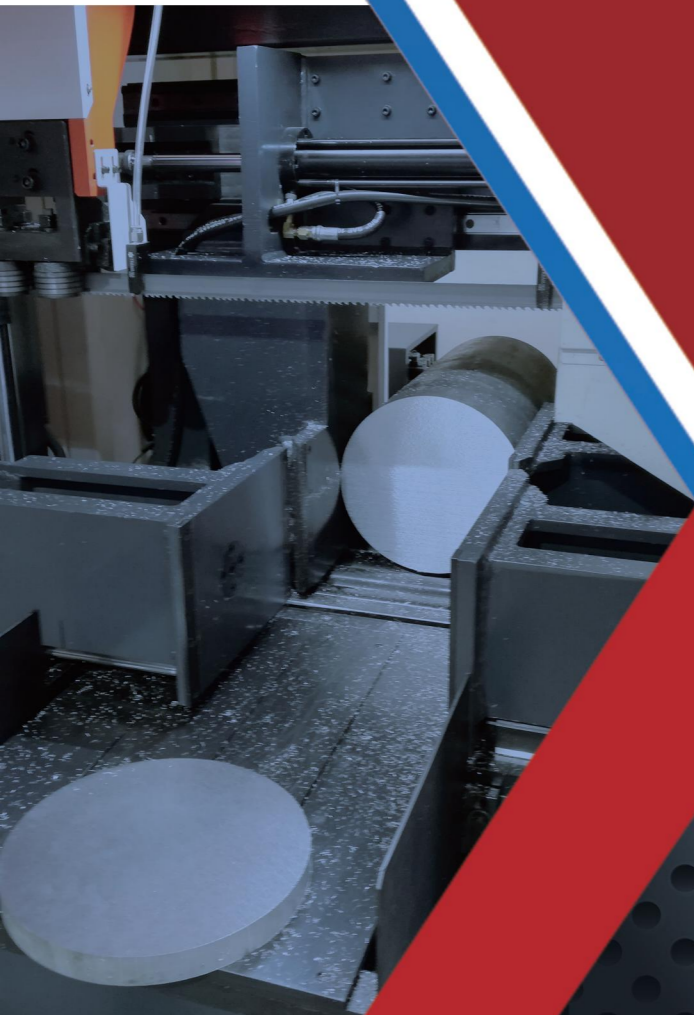
金属让世界更美好 ...

# Anhui Shenchang Aluminum Group Co.,LTD.

## 安徽申长铝业集团有限公司



### BUSINESS BROCHURE 企业宣传册



ANHUI FACTORY & WAREHOUSE	South of Weisan Road, East of Jingba Road, Economic Development Zone, Tianchang, Anhui, China
SUZHOU FACTORY & WAREHOUSE	No.33 Jiasheng Road, Shengpu Street, Suzhou Industrial Park, Jiangsu, China
SHANGHAI FACTORY & WAREHOUSE	No.618 Shengfu Road, Jiuting Town, Songjiang District, Shanghai, China
SHANGHAI OFFICE	#601, Building 5, Huizun Plaza, Lane 88, Lianyou Road, Minhang District, Shanghai, China

安徽工厂&仓库：安徽省天长市经济开发区纬三路南侧、经八路东侧(239300)  
 苏州工厂&仓库：江苏省苏州工业园区胜浦街道佳胜路33号3号(215126)  
 上海工厂&仓库：上海市松江区九亭镇盛富路618号4幢(201615)  
 上海办公室：上海市闵行区联友路88弄惠群广场5号楼601(201107)

中文联系

[www.shenchangal.com](http://www.shenchangal.com) (CN)  
liuzhu@shenchangal.com

For English

[www.ascalgrou.com](http://www.ascalgrou.com) (EN)  
aluminumasc@gmail.com

WhatsApp / WeChat

+86 19921836061  
(联系手机及微信同号)

# WELCOME

Shenchang is the leading stockist of aluminum material spot in East China, the source base of one-stop metal material procurement. With warehouses in Anhui, Shanghai and Suzhou, we keep regular stock of more than 8000 tons, and provide fast Cutting and machining services.

We have 18 years of industry experience, focusing on metal materials, such as aluminum plate, rod, tube, profile, titanium, magnesium alloy, stainless steel, etc., and sold to all over the world.

申长是华东区铝材料现货龙头供应商，在安徽、上海和苏州都有仓库，常备库存 8000 吨以上，并且提供快速切割和加工服务。我们有 18 年的行业经验，聚焦于金属材料，如铝板、铝棒、铝管、铝型材，镁合金，钛合金，不锈钢等，并销往全球。

## TABLE OF CONTENTS 目录

Company Profile	Company Profile 公司简介	1~12
Product Application 产品应用	Aerospace 航空航天	13~14
	Rair Transit 高铁轨交	15~16
	Ship Industry 船舶行业	17~18
	Automotive Industry 汽车行业	19~20
	Semiconductor Industry 半导体行业	21~22
	Medical Field 医疗领域	23~24
	Construction & Decoration 建筑和装饰	25~26
	Packaging & Containers 包装和容器	27
	New Energy Power 新能源电力	28
	Machinery and Automation 机械和自动化	29~30
	Mold and Tooling 模具和工装	31~32
	3C Electronics 3C 电子	33~34
	Sports & Daily Necessities 运动及日用品	35~36
Product Introduction Aluminum Plate 产品介绍 铝板	Aluminum Plate 1060 1050 1100 铝板	37~38
	Aluminum Plate 2A11 2014 铝板	39~40
	Aluminum Plate 2017 2024 2A12 铝板	41~42
	Aluminum Plate 3003 3A21 铝板	43~44
	Aluminum Plate 5052 5754 铝板	45~46
	Aluminum Plate 5083 铝板	47~48
	Aluminum Plate 5A06 6016 铝板	49~50
	Aluminum Plate 6061 铝板	51~52
	Aluminum Plate 6063 6082 铝板	53~54
	Aluminum Plate 7050 7A04 7A09 铝板	55~56
Aluminum Plate 7075 铝板	57~58	
Special Introduction 特殊介绍	59~60	
Product Introduction Aluminum Rod 产品介绍 铝棒	Aluminum Rod 1060 2011 铝棒	61~62
	Aluminum Rod 2014 2017 铝棒	63~64
	Aluminum Rod 2024 2A12 2A11 铝棒	65~66
	Aluminum Rod 2A50 2A70 铝棒	67~68
	Aluminum Rod 3003 3A21 铝棒	69~70
	Aluminum Rod 4032 5052 铝棒	71~72
	Aluminum Rod 5056 5083 铝棒	73~74
	Aluminum Rod 5A05 5A06 铝棒	75~76
	Aluminum Rod 6061 6063 铝棒	77~78
	Aluminum Rod 6082 6101 铝棒	79~80
Aluminum Rod 7A04 7A09 7075 铝棒	81~82	
Product Introduction Other Aluminum Material 其它铝材料	Aluminum Bar Flat/Square/Angle/Hexagonal 铝排 角铝 六角棒	83~84
	Aluminum Pipe 铝管	85~87
	Aluminum Checker Plate & Sublimation Blanks 花纹铝板&热转印板	88
Assembly Line Aluminum Profile 流水线铝型材	89~90	
Product Introduction Other Metal 其他金属	Titanium and titanium alloys 钛及钛合金	91~94
	Magnesium and Stainless Steel 镁和不锈钢	95~98
	Other Metals 其它金属材料	99~100
Service/Test/Certificate	Service/Test/Certificate 服务/检测/证书	101~104
Common Datas Reference	Common datas reference 常用参考资料	105~114
	Our 6 strengths &partners 六大优势&合作伙伴	115~116



## ENTERPRICE MISSION 企业使命

To help global enterprises to enhance their competitiveness and make better metal products.

聚合优质金属，助力全球制造！帮助企业提升竞争力，做更好的金属产品。

## ENTERPRICE VISION 企业愿景

To be a trusted supplier of total solutions for industrial aluminum, and achieve a high-quality global supply chain for metal materials and post-processing.

成为值得信赖的工业用铝整体解决方案供应商，实现金属材料及后加工的优质全球供应链。

## CORE VALUE

## 企业价值观

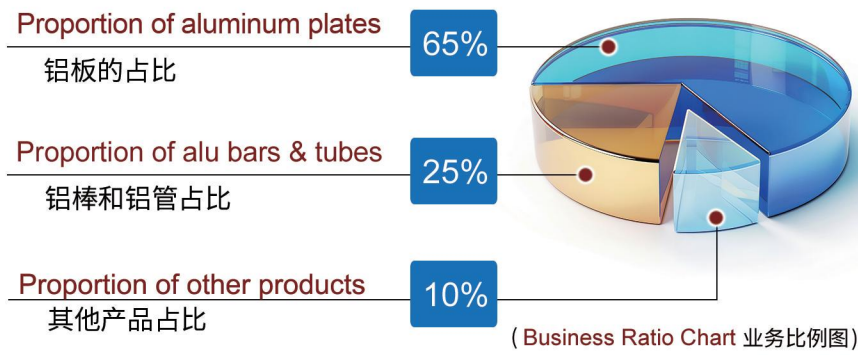
- Integrity 诚信为本
- Quality 品质为先
- Steady-Develop 厚积薄发
- Win-Win Cooperation 合作共赢



## Business and Development History

We value every customer, whether you are a wholesaler, a manufacturing plant or an end user. We will deliver your goods promptly and accurately. Even one piece can be made-to-order.

我们重视每一个客户，不管你是批发商，制造工厂还是终端用户，我们都会迅速和准确的将你的货物送到，一件也发货。



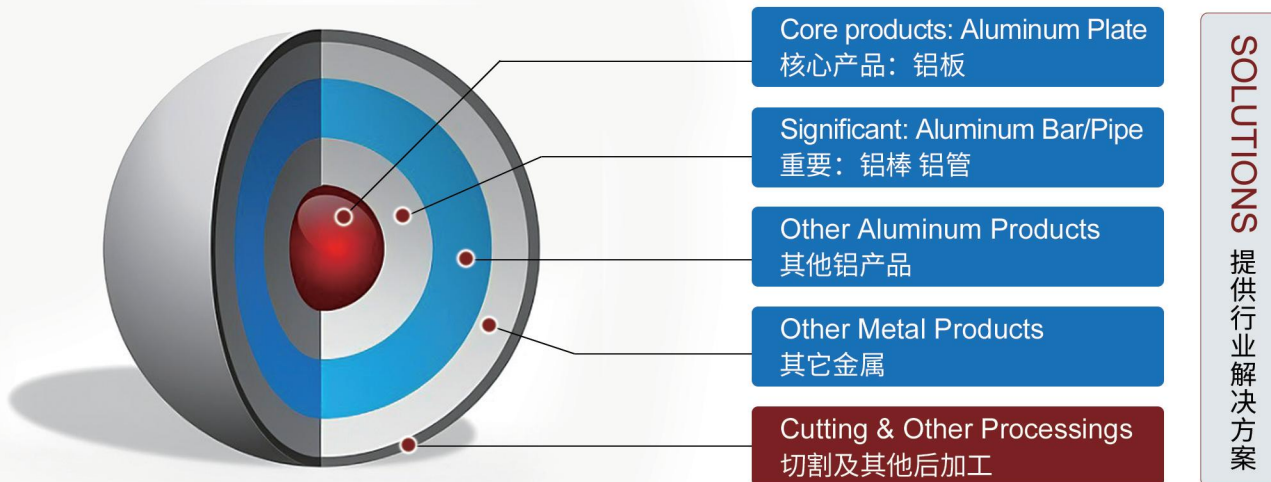
We sincerely invite overseas dealers in metal materials to be our distributors

诚邀海内外铝金属经销商合作



### ANY SIZE, ANY METAL, CUT & QUICK DELIVERY

- ✔ Quick Delivery 发货迅速
- ✔ Reliable Quality 品质保障
- ✔ Low MOQ 起订量低
- ✔ Material Tranceability 材质可溯源



<b>18</b> Years of experiences in aluminum industry 18年铝业经验	<b>33000</b> Square meters self-owed factory 33000平米自有厂房	<b>10<sup>9</sup></b> Annual sales exceed one billion RMB 年销售超10亿元
<b>8000+</b> Tons of spot inventory 8000多吨现货库存	<b>15000+</b> More than 15000 global customers 服务于15000多家客户	<b>70+</b> Sold to more than 70 countries 销往70多个国家

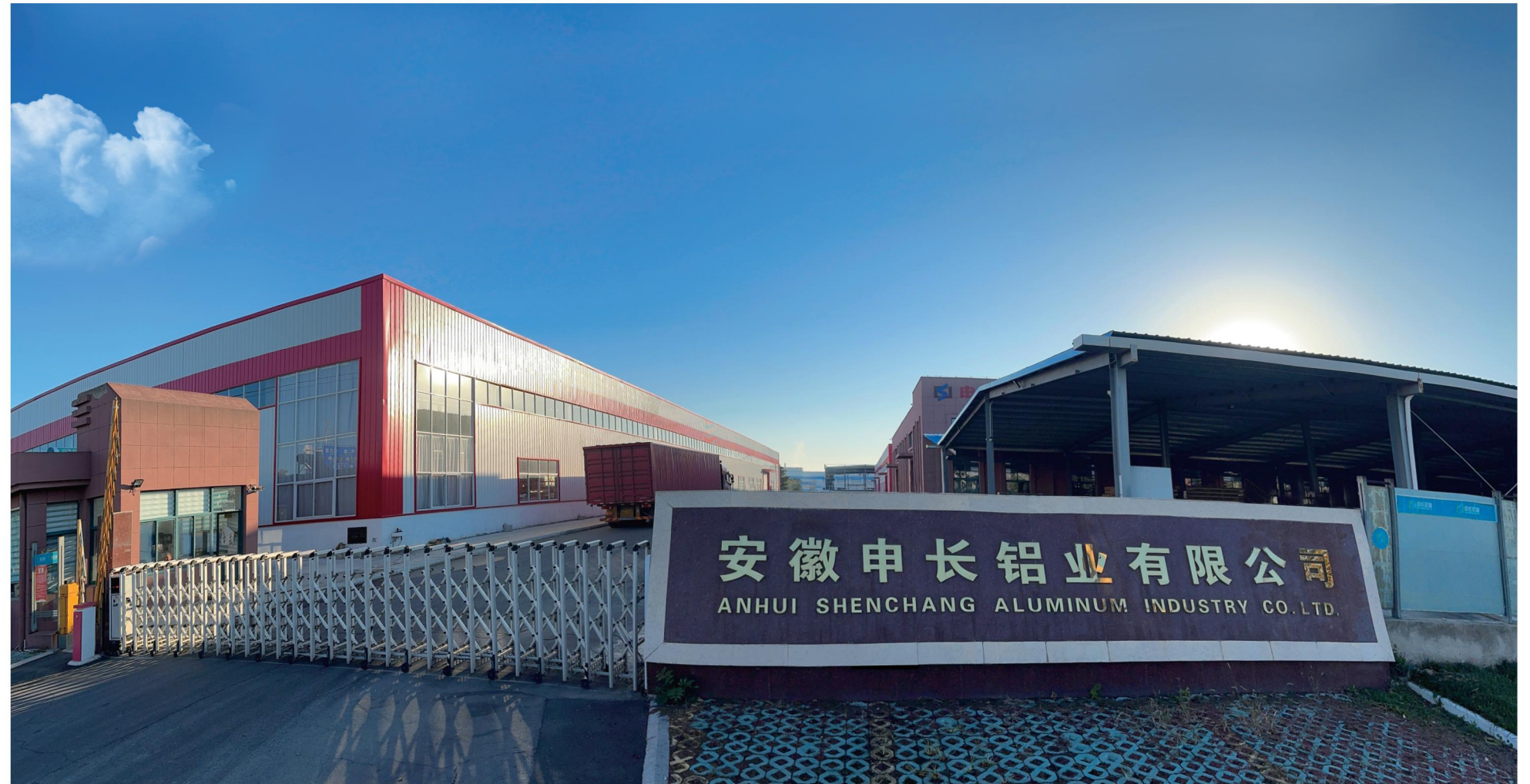
## Factory Photos Display



Office Building 办公大楼



Metal Cutting System workshop 切割车间



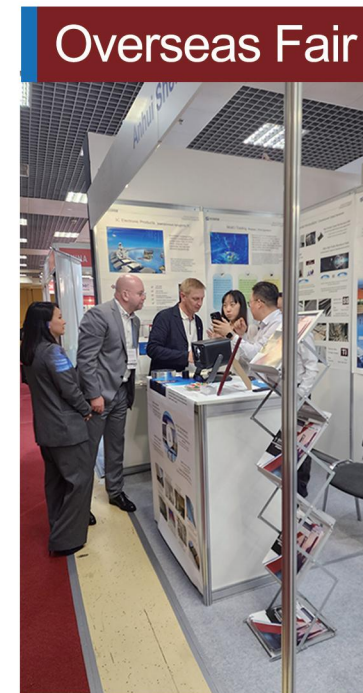
Exterior Photo of the Plant  
厂房一角



The Worker Loading  
日常装车



Group Photo  
员工合影



## Overseas Fair



We go overseas to participate in metal industry exhibitions every year  
Welcome customers all around the world to visit our factory



我们每年到海外参加有关金属材料的会展  
欢迎海内外的客户来我厂参观联系合作



## Product Line & Cutting Machine

Thanks to China's strong industrial system leading industry partners, in the field of aluminum alloy and metals, Shenchang group has high quality and rich products, such as aluminum plates, bars, tubes, profiles, and other metals. We sell them all over the world. Better materials enhance the market competitiveness of your products.

得益于中国强大的工业体系和行业领先的合作伙伴，在材料领域，申长有着高质量的而且丰富的产品，如铝板、铝棒、铝管、型材、及其他金属材料等，并销往全球。更好的材料提升产品市场竞争力。



Hot Rolled Production Line 热轧线



Stretch Line  
拉伸线



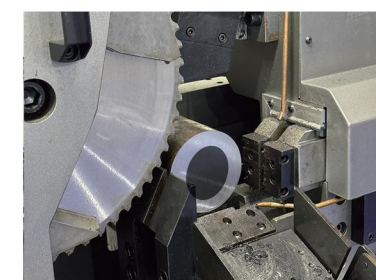
Forging Line  
锻造线



Coil Line  
铝卷产线



Shearing Machine  
剪板机



Pipe/Profile Saw  
管材及型材锯



Automatic High Speed Band Saw  
全自动高速带锯



Extruded Rod  
挤压棒



Extruded Bar  
挤压铝棒



Pipe and Profile  
管材和型材



Automatic Disc Sawing Machine  
全自动超宽圆盘锯床



Automatic Vertical Saw  
全自动高速立锯

## Products Display in Warhouse

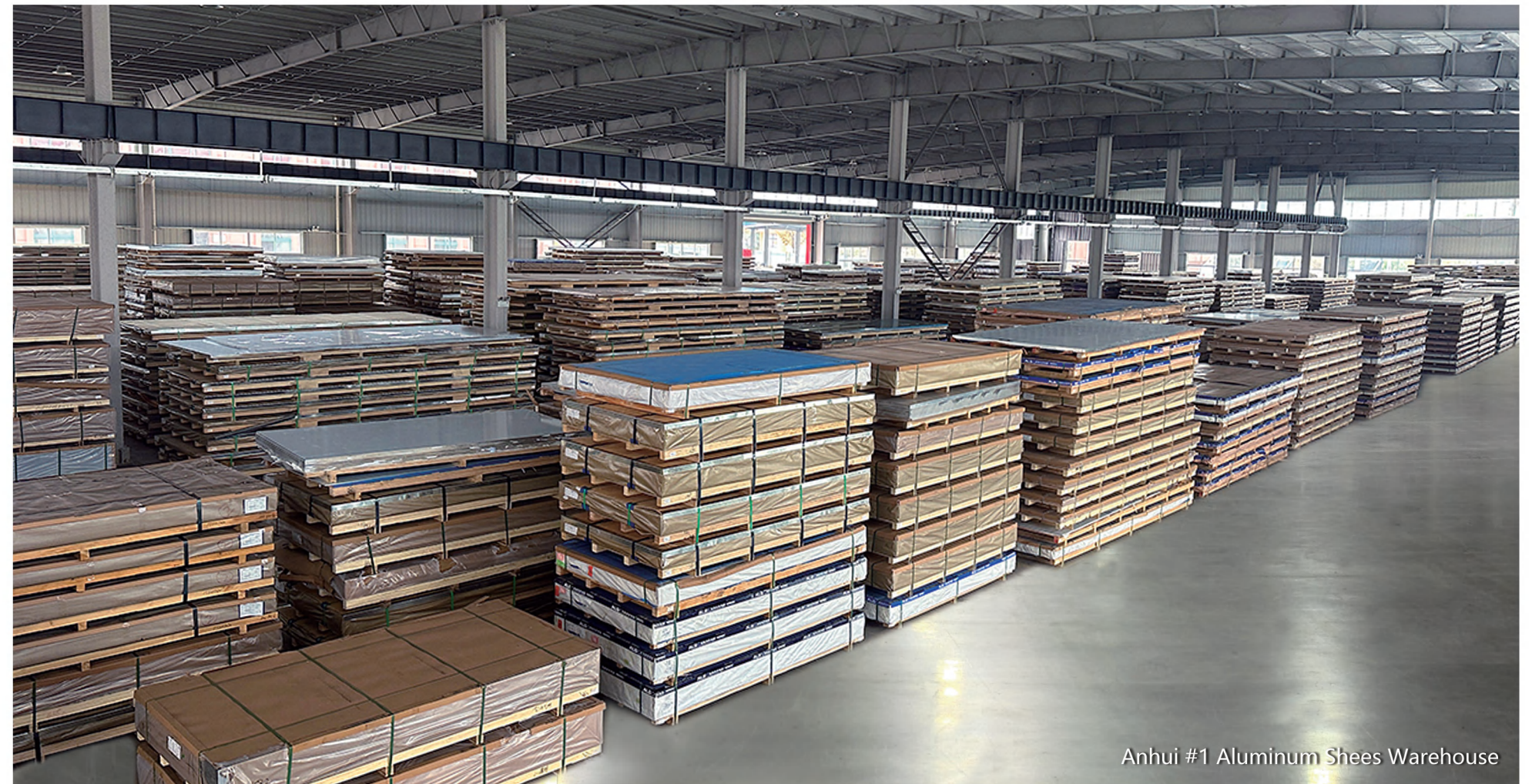
Shenchang is the leading stockist of aluminum material spot in East China, the source base of one-stop metal material procurement. With warehouses in Anhui, Shanghai and Suzhou, we keep regular stock of more than 8000 tons, and provide fast Cutting & processing services.

申长是华东区铝材料现货龙头供应商，金属材料一站式采购源头基地，在安徽、上海和苏州都有仓库，常备库存8000吨以上，并且提供快速切割和加工服务。



Anhui #3 Warehouse

Aluminum Rod 铝棒仓



Anhui #1 Aluminum Shees Warehouse

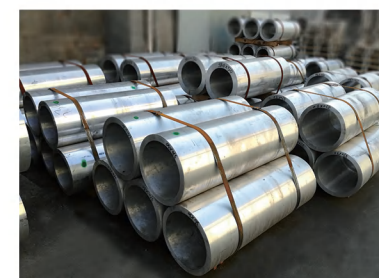
Aluminum Plate 铝板仓



Aluminum Flat bar  
铝排仓



Extruded Aluminum Pipe  
挤压铝管



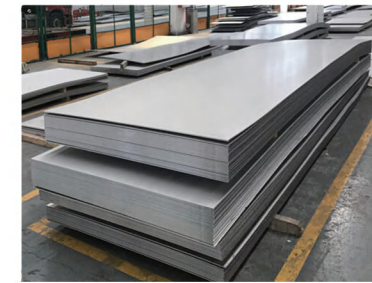
Al Seamless / Forged Pipe  
无缝铝管/锻管



Rectangular / Square Tube  
挤压方管



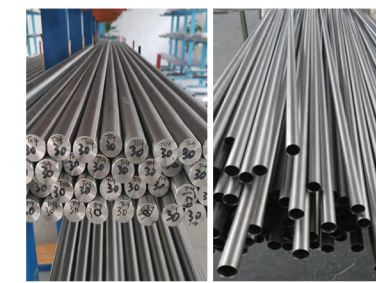
Al Hexagonal / Angle bar  
六角棒 / 角铝



Titanium (Alloy) Plate  
钛板



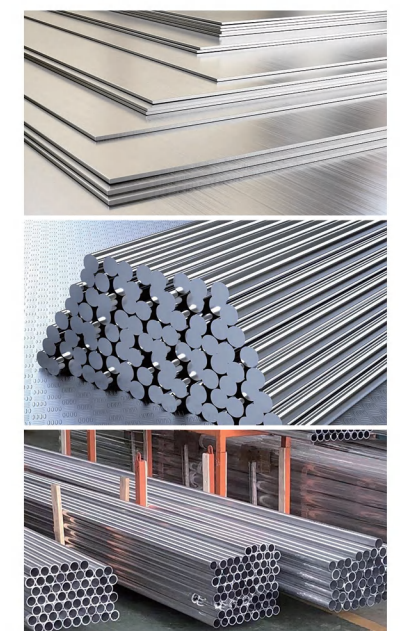
Magnesium Alloy Plate  
镁板



Titanium Rod / Pipe  
钛棒和钛管



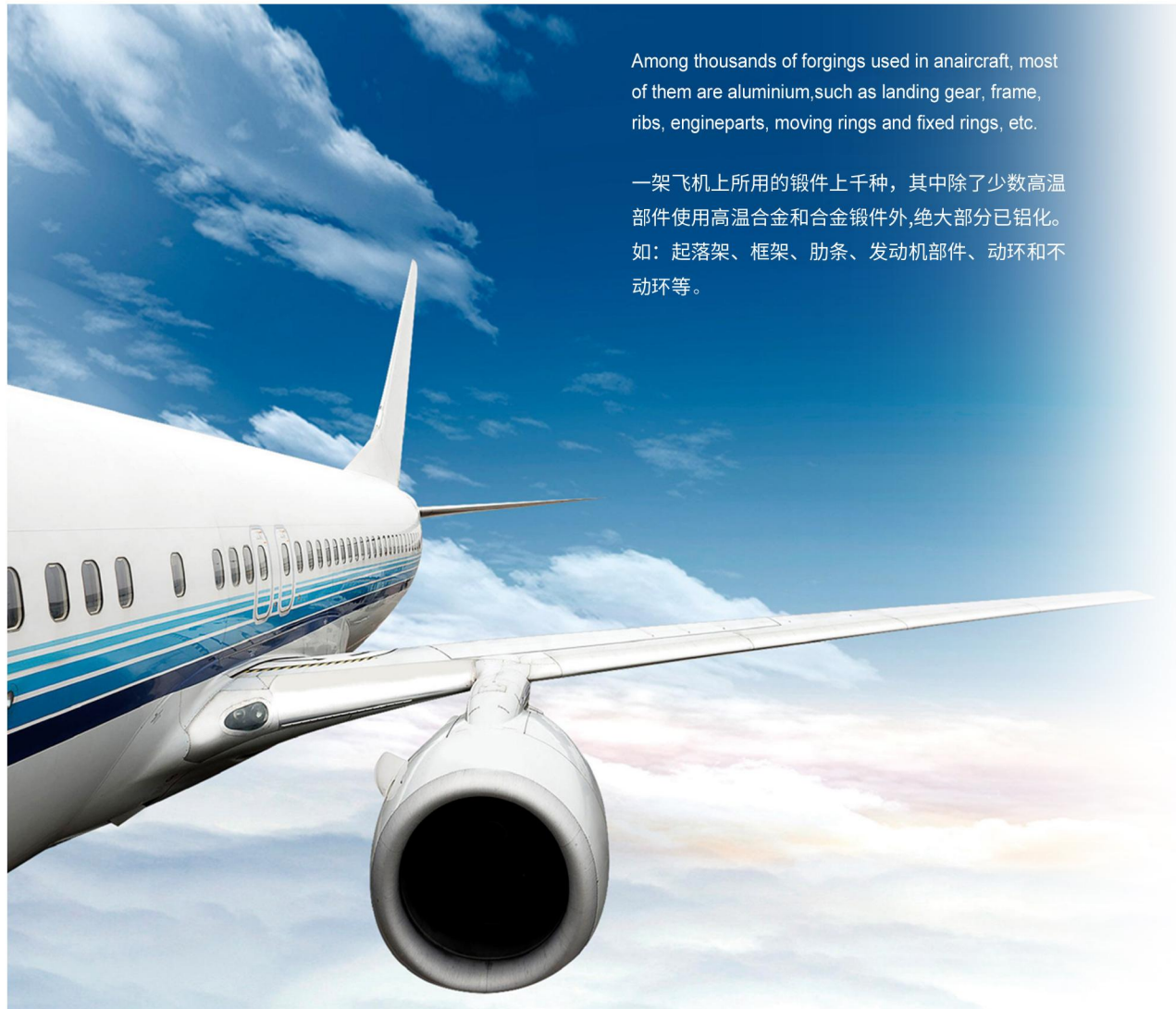
Magnesium Alloy Rod  
镁棒



Steel Stainless Plate / Rod / Pipe  
不锈钢板棒管

# 01 Aerospace 航空航天

## Typical Applications 典型应用



Among thousands of forgings used in an aircraft, most of them are aluminium, such as landing gear, frame, ribs, engine parts, moving rings and fixed rings, etc.

一架飞机上所用的锻件上千种，其中除了少数高温部件使用高温合金和合金锻件外，绝大部分已铝化。如：起落架、框架、肋条、发动机部件、动环和不动环等。

### Typical alloy 典型合金

2024    2017    2A12    6061  
6082    7050    7075    7A04

### Available material 可供材料

Plate, Bars, Pipes, Forgings, Castings  
铝板，铝棒，管件，锻件，铸件

<p>大飞机机翼壁板</p>	<p>Wing panel for aircraft 机翼壁板</p>	
<p>Foring component for aircraft 飞机用锻件</p>		<p>Fuselage skin 机身蒙皮</p>
	<p>Honeycomb sandwich panel 蜂窝夹层面板</p>	
<p>Large forging ring for satellite 卫星用大锻环</p>		<p>Aviation seat support 航空座椅支撑</p>
	<p>Aviation cabinet 航空橱柜 Structural component 结构件</p>	



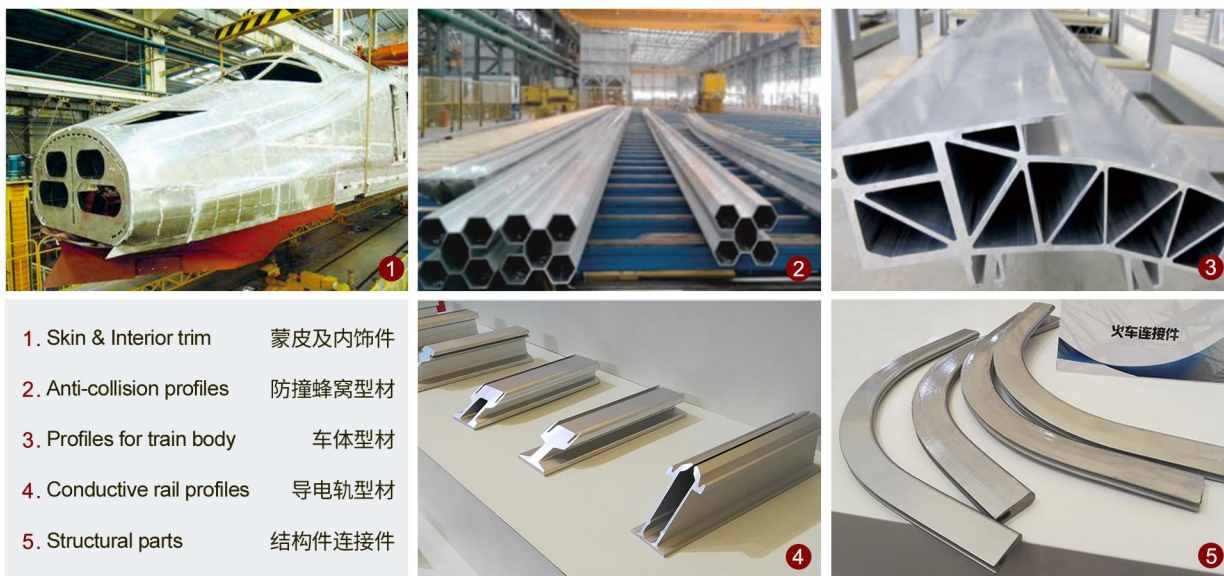
# Rair Transit 轨道交通

# Typical Applications 典型应用



Thanks to the rapid development of rail transit in China and the general trend of lightweight transportation, aluminum has been widely used, such as: high-speed rail, bullet train, light rail, subway and so on.

得益于中国轨道交通领域的飞速发展，以及交通工具轻量化的大趋势，铝材获得非常广泛的应用。例如：高铁、动车、轻轨、地铁等。



- 1. Skin & Interior trim 蒙皮及内饰件
- 2. Anti-collision profiles 防撞蜂窝型材
- 3. Profiles for train body 车体型材
- 4. Conductive rail profiles 导电轨型材
- 5. Structural parts 结构件连接件

Types of Rail Transit Plates 轨道交通板材类型	Alloy 合金	Temper 状态	Typical thickness 典型厚度/mm	Width 宽度/mm
Load-bearing structural parts 承重结构件	7N01/7020	T4/T6	4~12	≤2600
	6082	T6/T651		
Skin and interior trim 蒙皮以及内饰件	5083	O/H111		
	5754	O/H111		
	5052	O/H111		
Load-bearing structural parts 承重结构件	7N01/7020	T4/T6		
	6082	T6/T651		
Skin and interior trim 蒙皮以及内饰件	5083	O/H111		
	5754	O/H111		
	5052	O/H111		

Types of Rail Transit Profiles 轨道交通型材类型	Alloy 合金	Temper 状态	Minimum wall thickness 最小壁厚/mm	Width 宽度/mm
Structural parts 结构件	7050	H112	Diameter直径 ≤450	
	7N01	T5	6.0	≤500
	7003	T5	4.0	
	6082	T6	4.0	≤600
Body profiles 车体型材	6061	T6	3.0	≤700
	6005A	T6	2.0	
	6063	T6	2.0	
Anti-collision profiles 车体型材	6008	T4	2.0	
Conductive rail profiles 导电轨型材	6010	T6	2.0	

# Ship Industry 船舶工业

# Typical Applications 典型应用



Aluminium alloy offers more solutions for shiplightweight with high specific strength, good corrosionresistance and weldability. Our company can offer DNV.GL,ABS,BV,CCS,LR or other quality system certified material.

铝合金的比强度大，耐蚀性好，具有较高的可焊接性，为船体轻量化提供了很好的选择。可提供DNV.GL、ABS、BV、CCS、LR证书或其他质量认证。

Marine grade sheet / plate 常用5系船用铝板的规格

合金 Alloy	状态 Temper	厚度 (mm) Tickness	宽度 (mm) Width
5083	O/H111/H112/ H116/H321	3-10	≤2600
5086			
5456			
5083	O/H111/H112/ H116/H321	10~50	≤3600
5086			
5456			



Coastallawenforcement Vessel 海岸执法船



Hovercraft 气垫船LSAC



Catamaran Verry 双体渡船



High Speed Yacht 高速快艇



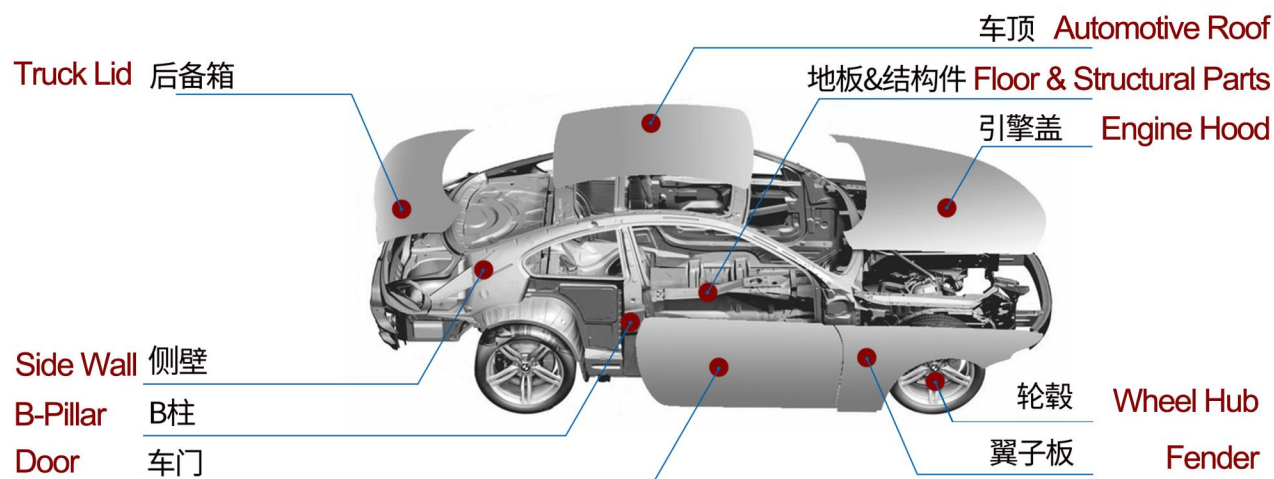
Oceanengineering Equipment 海洋工程装备





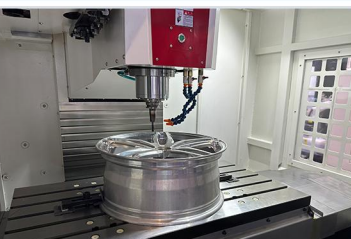
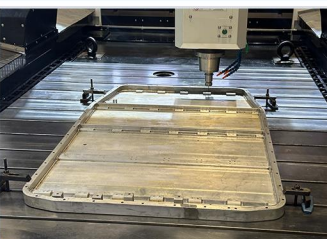







LNG Vessel NG船舶

# Automotive Industry 汽车领域

# Typical Applications 典型应用



	Automotive inside hood 引擎盖内板	
	Busbar conduct for NE automotive 新能源车母线导体	
	Automotive wheel hub 汽车轮毂	
	Automotive structural parts 结构件	
	Skin of automotive 车厢蒙皮	
	Aluminum Space Frame 车身框架	

Typical alloy 典型合金 3003 5005 5052 6061 6063 6101

# Semiconductor Industry 半导体产业

# Typical Applications 典型应用



Aluminum alloy has light weight, good corrosion resistance, good thermal conductivity, and has high stability and rigidity. Shenchang's aluminum alloy materials are widely used in semiconductor components and semiconductor equipment.

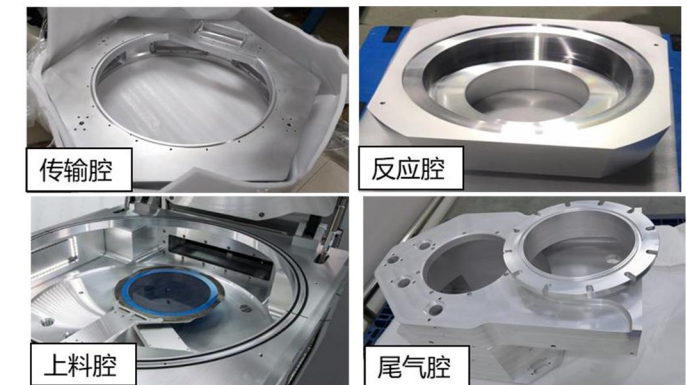
铝合金具备重量轻,耐蚀性能好,导热性能良好,并具有较高的稳定性和刚性。申长的铝合金材料在半导体部件和半导体设备里被广泛的应用。

## Typical alloy 典型合金

5052 6061 6N61-SP ( for Semiconductor )

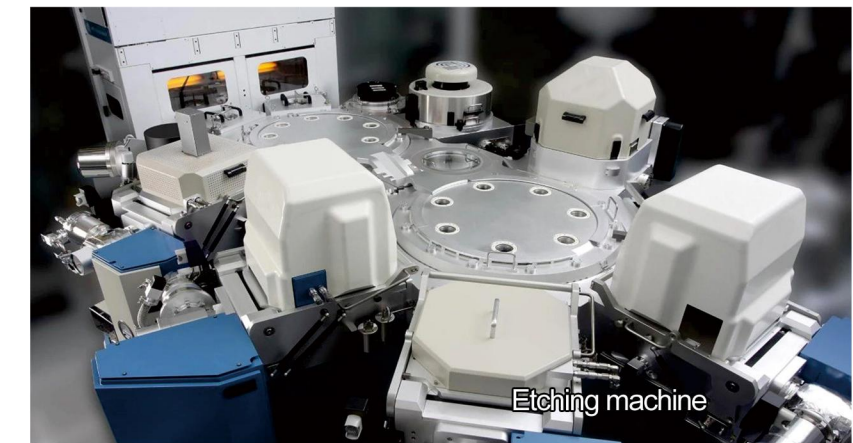


Raw material is made into cavity  
铝原料制作成各种腔体



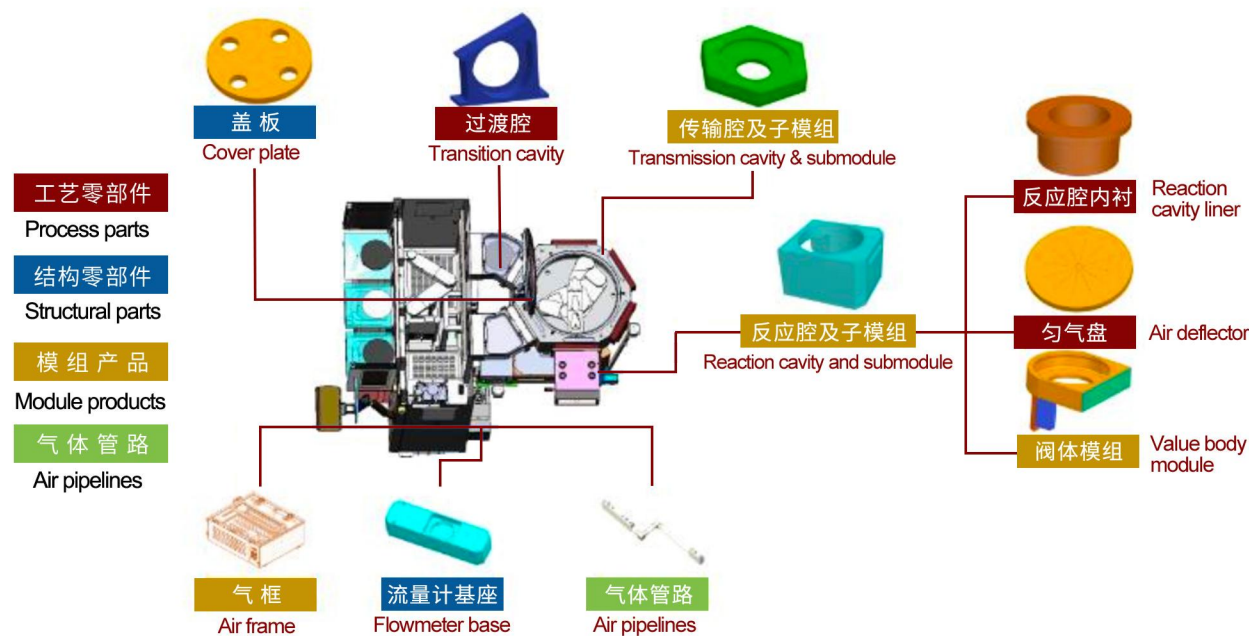
## Good performance 性能优异

- ✓ Corrosion resistance 耐腐蚀性
- ✓ Sealing performance 密封性
- ✓ Cleanliness 洁净度
- ✓ Vacuum performance 真空度



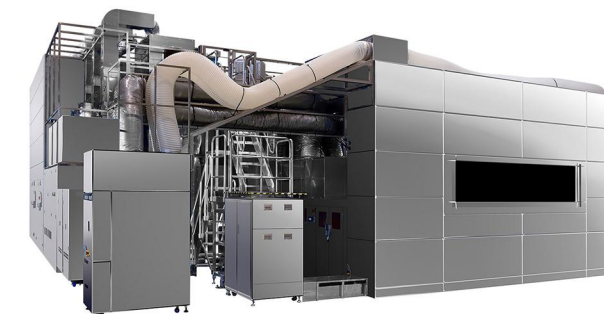
## Application Diagram of Alunium in Semiconductor

铝合金在半导体的应用图示



## Advantages of Semiconductor Aluminum 优点

- Low internal stress, straight and good flatness.
- Super thick, high clean, high uniformity and no sand inclusion, no cracks and other defects.
- Good anodizing performance. Stable quality between different batches.
- 残余内应力低, 优异的平直度。
- 超厚、高洁净、高均匀及无砂眼、无夹杂、无裂纹等缺陷。
- 阳极氧化性能好。
- 批次间品质稳定。



## Medical Field 医疗领域

## Typical Applications 典型应用



Aluminum is a lightweight, high-strength, corrosion-resistant and non-toxic material, so it plays an important role in the medical field, from equipment, instruments, parts and packaging are widely used.

铝是一种轻质、高强度、耐腐蚀且无毒的材料，因此，它在医疗领域中扮演着重要角色，从设备、器械、零件和包装都广泛使用。

Anesthetic Machine

麻醉机



X-ray Machine

X光机



Operating Table

手术台



CT机

CT Machine



Typical alloy 典型合金

5083 5052 6061 6082 8011

# Construction & Decoration 建筑与装潢

# Typical Applications 典型应用



Aluminum alloy is widely used in modern construction, which can not only provide the appearance and interior decoration of a beautiful building, but also meet the functional and performance requirements of the building. Wood to aluminum, plastic to aluminum, steel to aluminum becomes the main development direction of green buildings.

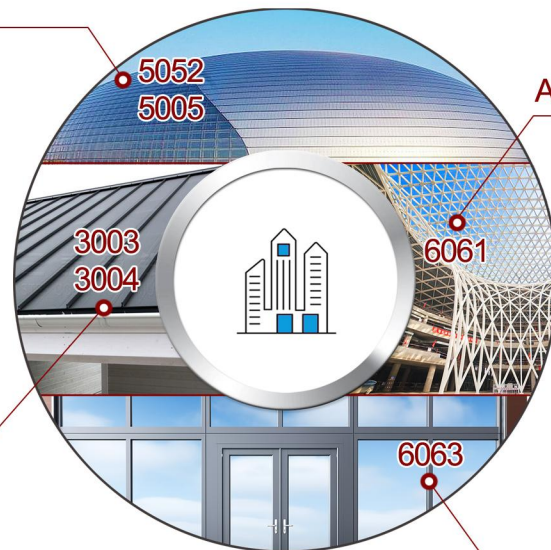
铝合金在现代建筑中应用非常广泛，不仅能够提供漂亮的建筑的外观和内部装饰，还能满足建筑物的功能和性能要求。以铝代木，以铝代塑料，以铝代钢是未来绿色建筑的一个发展方向。

### Aluminum curtain wall

Good for anodizing and glossy

### 铝幕墙

氧化氧化性能好，光泽度高



### Aluminum structural elements

High strength and cost-effective

### 建筑结构件

高强度，性价比高

### Aluminum roof system

Good corrosion resistance

Easily stamped to shape

### 铝屋顶系统

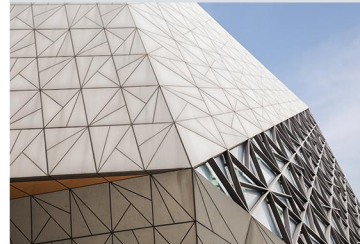


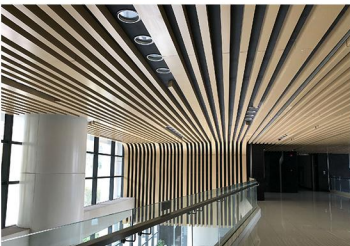

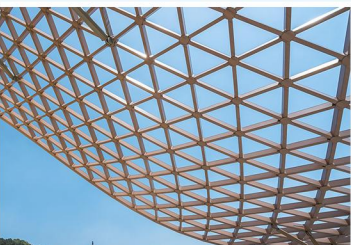

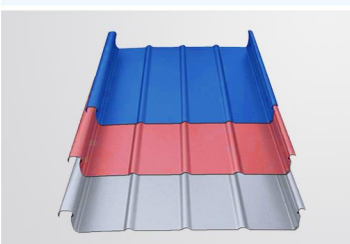


耐腐蚀性好，容易冲压成型

### 门窗及型材

挤压性能及氧化氧化性能优异

### Doors, Windows and profiles

Excellent extrusion and anodizing properties

	Aluminum curtain wall plate 幕墙铝板	
	Aluminum alloy ceiling 铝合金吊顶	
	Carved and prepunched sheet 雕花及冲孔铝板	
	Roofing corrugated aluminum sheet 屋顶瓦楞铝板	
	Aluminum template 铝合金模板	
	Door and window section 门窗型材	

Typical alloy 典型合金

3003 5005 5052 6061 6063

## Packaging & Containers 包装与容器

## New Energy Power 新能源电力



Aluminum alloy lightweight, corrosion resistance, good sealing, recyclable, making it an ideal packaging material. Widely used in food packaging, pharmaceutical packaging, cosmetic packaging and so on.

铝合金轻便、耐腐蚀、密封性好、可回收利用，使其成为一种理想的包装材料。广泛地应用于食品包装、药品包装、化妆品包装等。



Aluminum alloy has the characteristics of lightweight, corrosion resistance, high strength, good electrical and thermal conductivity, and has been widely used in solar photovoltaic power, wind power, energy storage, improving the efficiency of new energy facilities and promoting the development of clean energy..

铝合金具备轻便、耐腐蚀、高强度、导电和导热性能好的特点，近年来广泛得应用于在太阳能光伏发电、风电、储能等领域，提高了新能源设施的效率，推动了清洁能源的发展。。



Aluminum cans  
易拉罐



Aluminum bottle caps  
铝瓶盖



Aluminum foil container  
铝箔餐盒



Aluminum foil for capsule  
胶囊包装铝箔



Aluminum boxes  
铝盒



Aluminum storage tank  
储油/气罐



Generator body  
发电机壳

Generator body  
发电机壳

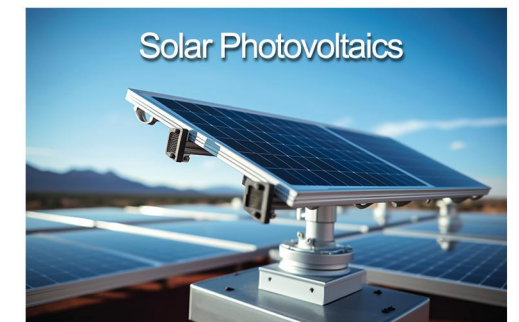
Support  
支架



Support  
支架

Aluminum frame  
铝框

Back sheet  
背板

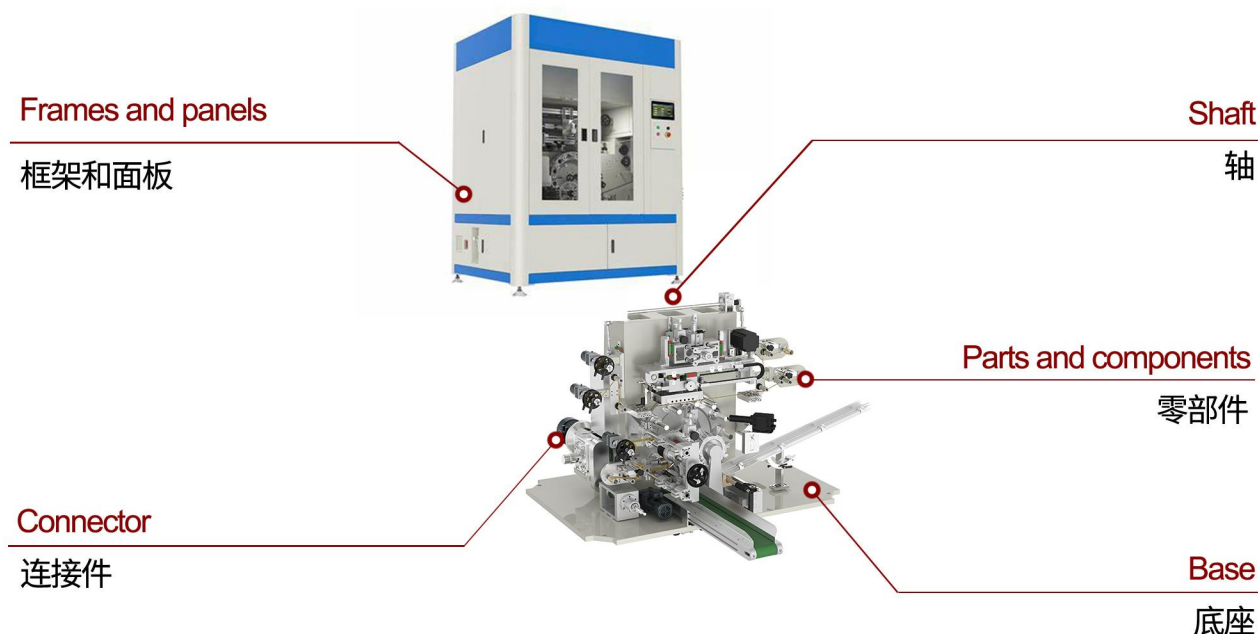


# Machinery and Automation 机械及自动化

# Typical Applications 典型应用



	Industrial robot arm 工业机械臂	
	Food machinery 食品机械	
	Textile machinery 纺织机械	
	Printing machinery 印刷机械	
	Mechanical parts 机械零部件 fixture 夹具治具	



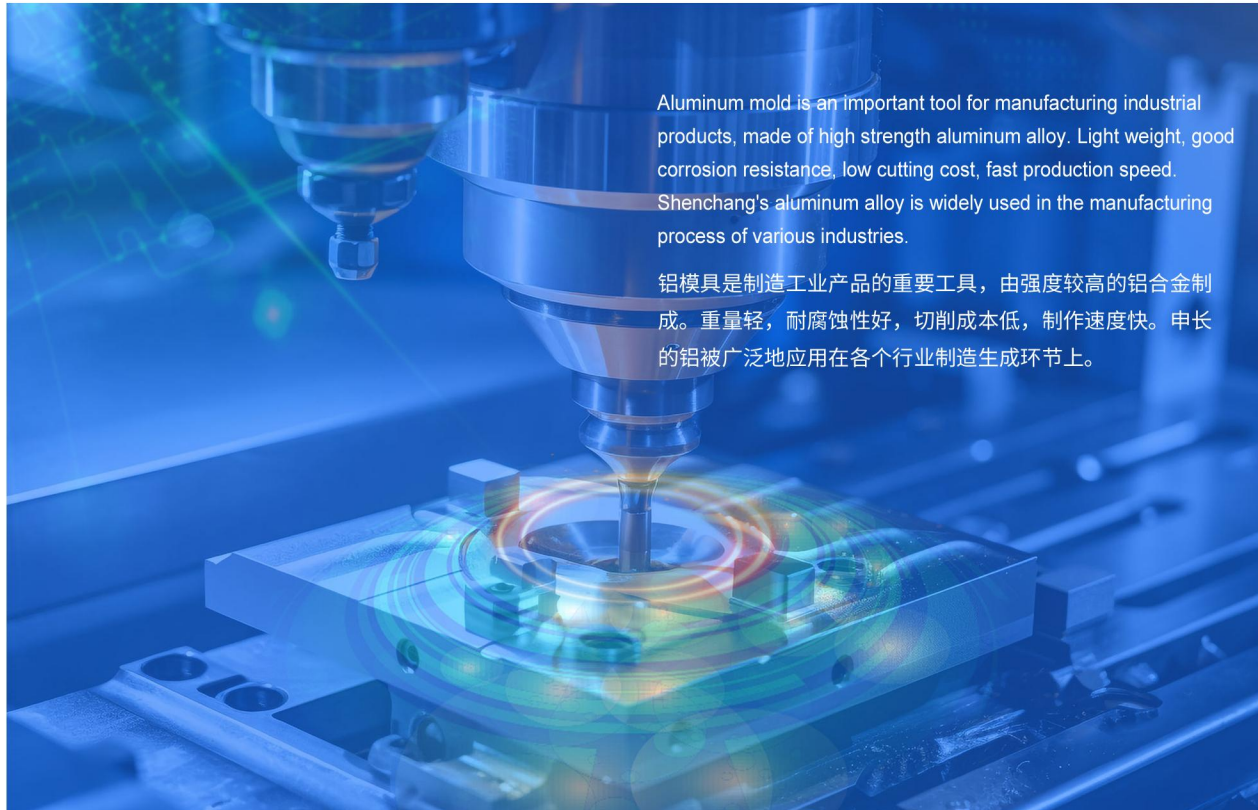
Typical alloy 典型合金

2024 5052 5083 6061 6082 7075



# Mold / Tooling 模具及工装

# Typical Applications 典型应用



Aluminum mold is an important tool for manufacturing industrial products, made of high strength aluminum alloy. Light weight, good corrosion resistance, low cutting cost, fast production speed. Shenchang's aluminum alloy is widely used in the manufacturing process of various industries.

铝模具是制造工业产品的重要工具，由强度较高的铝合金制成。重量轻，耐腐蚀性好，切削成本低，制作速度快。申长的铝被广泛地应用在各个行业制造生成环节上。




6061 aluminum plate with high strength, good wear resistance, is a well-known mold aluminum, it is very cost-effective, suitable for most industrial molds, 6082 is good for mold as well.

6061铝板强度高，耐磨性能好，是众所周知的模具铝，它性价比非常高，适用大多数的工业化模具，6082与6061接近。



5083 aluminum with a strength close to 6061, high magnesium content, has better corrosion resistance, especially suitable for cleanliness and high corrosion resistance of large molds..

5083铝板的强度接近6061，含镁量高，有着更好的耐腐蚀性，尤其适合对洁净度和耐腐蚀性高的大型模具。



2A12/2024 and 7075 provide higher strength, better wear resistance, more suitable for relatively high-end, or higher standard of the mold, but the cost is relatively higher.

2A12/2024和7075则提供了更高的强度，更好的耐磨性能，比较适合相对高端的，或具备更高要求的模具，但是价格相对也高。

	Mole for toy 玩具模具	
Mold for automotive 汽车模具		Mole for plastic 塑胶模具
	Mode for bottle 瓶模	
Ultrasonic mold 超声波模具		Mode for shoes 鞋模
	Baking mold. 烘焙模具	
Jigs and fixtures 夹具		

Typical alloy 典型合金 2024(2A12) 5083 6061 6082 7075

# 3C Electronic Products 3C电子产品

# Typical Applications 典型应用



Shenchang's aluminum alloy material is widely applied to 3C product covers such as smart phone, computer, smart appliances, and high-tech electronic equipment, etc.

申长铝业的铝合金材料已广泛应用在手机、电脑、智能家电，及高端电子设备等。

**C** Computer 电脑产品

**C** Communication 通讯产品

**C** Consumer Electronic 消费电子

- ✓ Light weight 重量轻
- ✓ High strength 强度高
- ✓ Corrosion resistance 耐腐蚀
- ✓ Not easy to deform during processing 加工不易变形
- ✓ Beautiful and colorful after anodizing 阳极氧化后美观

	Smart phone 智能手机	
Tablet computer 平板PAD		Laptop & computer 笔记本及电脑
	Mobile power supply 移动电源	
Unmanned aerial vehicles 无人机		Panels and housings of electronics 电器面板和外壳
	Smart wearable device 智能穿戴设备	
	Smart home electronics 智能家居电子	

Typical alloy 典型合金 5052 5252 6061 6063 6082 7075

## Sports & Daily Necessities 运动及日用品

## Typical Applications 典型应用



In the application of sports and daily necessities, aluminum alloy can be seen everywhere, it is light, strong, easy to carry, corrosion resistance, and inexpensive, in the need for strength in the case of 7000 series can be used to make.

在运动和日用品的应用中，铝合金随处可见，它轻便、坚固、便于携带、耐腐蚀，而且价格不贵，在需要强度的场合下可以使用7000系来制作。



Golf club head  
高尔夫球杆头



Aluminum kitchenware  
铝厨具



Tent support  
帐篷支架



Outdoor Table and chair  
户外铝桌椅



Aluminum ladder  
铝梯子



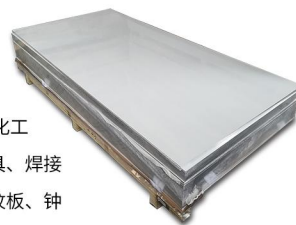
Typical alloy 典型合金

1060 5052 6061 6082 7075

## 1060 Aluminum Plate 铝板

1060 is widely used in products with low strength requirements, such as chemical instruments, sheet processing workpiece, deep drawing or spinning concave utensils, welding parts, heat exchanger, busbar and other conductive materials, non-slip pattern plate, bell surface and plate, name plate, kitchenware, decorations, reflective utensils, etc.

1060广泛应用于强度要求较低的产品，如化工仪器、板材加工工件、深拉或旋压凹形器具、焊接件、热交换器、母线等导电材料、防滑花纹板、钟面及板、铭牌、厨具、装饰品、反光器具等。



GB/T3880-2012

### ■ SIZES IN STOCK

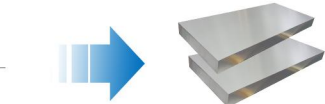
现货资源

Grade 材质	Thickness mm 厚度												Size mm 尺寸	
1060	0.8	1	1.2	1.5	2	2.5	3	4	5	6	8	10	12	1250*2500



We have 1060 plates in stock with a max. size of 350\*500\*3000mm, can be sawn to size.

备有最大尺寸为350\*500\*3000的1060板库存，可锯切指定的厚度和长宽，锯切公差0~+2mm



Dimensional Cutting Tolerance : 0~+2mm

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.25	0.0-0.35	0.0-0.05	0.0-0.03	0.0-0.03	-	0.0-0.05	0.0-0.03	≥99.60	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N/mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
1060 O	70	30	30
1060 H24	100	75	12

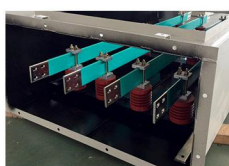


Button Shows Hardness of 1060 圆钮处为当前牌号硬度



### ■ APPLICATION CASES

应用案例



Busbar 母线、汇流排



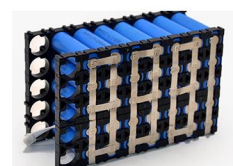
Insulated pipes 保温管道



Rice cooker liner 电饭锅内胆



Bottle cap sealing gasket 瓶盖封口垫片

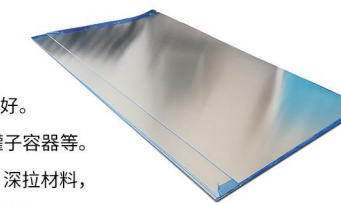


Battery soft connector 电池软连接片

## 1050 1100 Aluminum Plate 铝板

1050 is 99.5% pure aluminum suitable for extruded coils, cans and containers in the food, chemical and brewing industries. 1100 -99% pure aluminum is suitable for kitchen utensils, deep drawing materials, printing plates, nameplates, reflective appliances, building decoration materials, etc.

1050为99.5%的纯铝，强度低、耐蚀性好。适用于食品、化学和酿造工业用盘管、罐子容器等。1100为99%的纯铝，适用于厨房用品，深拉材料，印刷板、铭牌、反光器具、建筑装饰材料等。



GB/T3880-2012

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度												Size mm 尺寸	
1050	0.8	1	1.2	1.5	2	2.5	3	4	5	6	8	10	12	1250*2500
1100	0.8	1	1.2	1.5	2	2.5	3	4	5	6	8	10	12	1250*2500

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Grade	Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Zn 锌	Ti 钛	Al 铝	Others 其它
1050	0.0-0.25	0.0-0.4	0.0-0.05	0.0-0.05	0.0-0.05	0.0-0.05	0.0-0.03	≥99.50	-
1100	Si + Fe 0.95	0.05-0.2	0.0-0.05	-	-	0.0-0.1	-	≥99.00	Si+Fe 0.95

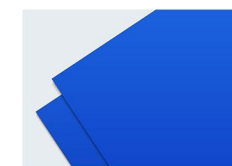
Mechanical Properties 力学性能	Tensile Strength Mpa (N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N/mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
1050 O	78	34	28
1050 H24	102	76	11
1100 O	90	35	26
1100 H24	115	78	10

Button Shows Hardness 1100>1050 圆钮处为当前牌号硬度



### ■ APPLICATION CASES

应用案例



Presen-Sitized Plate 印刷用PS基板



Bakery display tray 面包房摆放盘



Lighting reflector 灯具反光罩



Sign Plate 铭牌、标牌



Building curtain wall 建筑幕墙

## 2A11 Aluminum Plate 铝板

2000 series Al-Cu alloy with high copper content. Excellent cutting performance. Suitable for medium-strength bolts and rivets in aircraft, transportation vehicles and building structures.

含铜量高的2000系Al-Cu合金。切削性能优越。适用于航空器的中等强度的螺栓与铆钉,交通运输工具与建筑结构件。



GB/T3880-2012

### SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度												Size mm 尺寸			
2A11-T4	1	1.5	2	2.5	3	4	5	6	8	10					1250*2500	1525*3660

### DATA (REFERENCE VALUE)

数据 (参考值)

#### Chemical Composition (W%) 化学成分

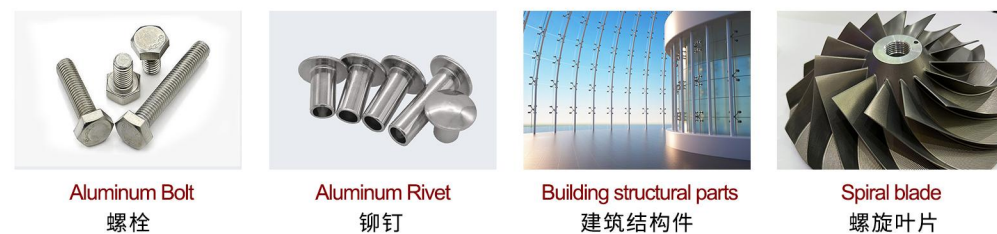
Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.0-0.7	0.0-0.7	3.8-4.8	0.4-0.8	0.4-0.8	-	0.0-0.3	0.0-0.15	Rem. 余量	Fe+Ni 0.7

Mechanical Properties 力学性能	Tensile Strength Mpa (N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N/mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
2A11 T4	390	215	15



### APPLICATION CASES

应用案例



Aluminum Bolt 螺栓

Aluminum Rivet 铆钉

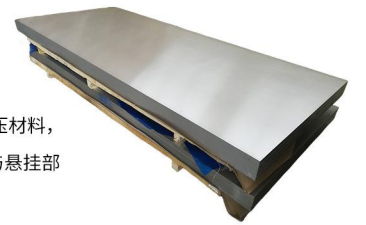
Building structural parts 建筑结构件

Spiral blade 螺旋叶片

## 2014 Aluminum Plate 铝板

2014 Suitable for aircraft heavy, forgings, thick plates and extrusions, wheels and structural parts, spacecraft parts, truck frames and suspension components.

2014适用于飞机重型、锻件、厚板和挤压材料,车轮与结构件,航天器零件,卡车构架与悬挂部件。



GB/T3880-2012 ASTM B209

### SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸	
2014-T4/T6	8	10	12	14	15	16	18	20	22	25	28	30	35	1250*2500	1525*3660
	40	45	50	55	60	65	70	75	60	80	85	90	95		
	100	105	110	115	120	130	140	150	160	170	180	190	200		

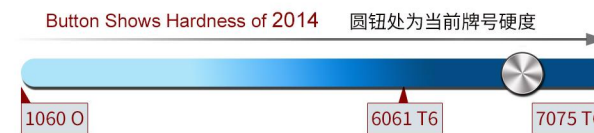
### DATA (REFERENCE VALUE)

数据 (参考值)

#### Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.5-1.2	0.0-0.7	3.9-5.0	0.4-1.2	0.2-0.8	0.0-0.1	0.0-0.25	0.0-0.15	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N/mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
2014 T6	485	415	-



### APPLICATION CASES

应用案例



Spacecraft parts 航天器零件

Aircraft wheels 飞机车轮

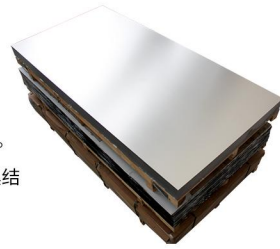
Truck Suspension Parts 卡车悬挂件

Precision mold 精密模具

## 2017 Aluminum Plate 铝板

2000 series Al-Cu alloy with high copper content. Excellent cutting performance. Suitable for rivets, general mechanical parts, structural and transportation vehicle components, propellers and accessories.

含铜量高的2000系Al-Cu合金。切削性能优越。适用于铆钉、通用机械零件、结构与运输工具结构件，螺旋桨与配件。



■ GB/T3880-2012 ASTM B209 EN485

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度												Size mm 尺寸	
2017-T4	8	10	12	14	15	16	18	20	22	25	28	30	35	1250*2500 1525*3660
	40	45	50	55	60	65	70	75	60	80	85	90	95	
	100	105	110	115	120	130	140	150	160	170	180	190	200	

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.2-0.8	0.0-0.7	3.5-4.5	0.4-1.0	0.4-0.8	0.0-0.1	0.0-0.25	0.0-0.15	Rem. 余量	

Mechanical Properties 力学性能	Tensile Strength Mpa (N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N/mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
2017 T4	425	275	-



### ■ APPLICATION CASES

应用案例



## 2024 2A12 Aluminum Plate 铝板

The popular 2000 series AL-Cu alloy has high strength and excellent cutting performance. It is suitable for aircraft structures, automobile parts, military equipment, sports equipment, marine parts, various industrial parts and structural parts, etc.

广受欢迎的2000系AL-Cu合金，强度高，切削性能优越。适用于飞机结构、汽车零部件、军事装备、体育器材、船用部件、各种工业的零部件及结构件等。



■ GB/T3880-2012 ASTM B209 EN485 AMS4037

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度												Size mm 尺寸	
2024-T4 2024 T351	1	1.5	2	2.5	3	4	5	6	8	10	12	14	15	1250*2500 1500*3000 1525*3660
	16	18	20	22	25	28	30	35	40	45	50	55	60	
2A12-T4 2A12-T351	65	70	75	60	80	85	90	95	100	105	110	115	120	
	130	140	150	160	170	180	190	200	210	220	230	240	250	

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Grade	Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Zn 锌	Ti 钛	Al 铝	Others 其它
2024	0.0-0.5	0.0-0.5	3.8-4.9	0.3-0.9	1.2-1.8	0.0-0.25	0.0-0.15	Rem. 余量	Cr 0.0-0.1
2A12	0.0-0.5	0.0-0.5	3.8-4.9	0.3-0.9	1.2-1.8	0.0-0.3	0.0-0.15	Rem. 余量	Ni 0.0-0.1

Mechanical Properties 力学性能	Tensile Strength Mpa (N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N/mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
2024 T351	485	345	18
2024 T4	470	325	18



### ■ APPLICATION CASES

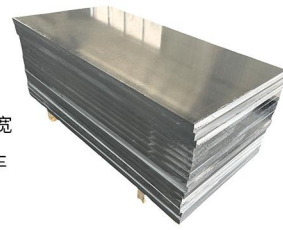
应用案例



## 3003 Aluminum Plate 铝板

Typical uses: bus skin, bin, antenna pot material, wide curtain wall board, wide roof board, power battery shell, automobile heat shield, oil tank, water tank, automobile anti-skid plate, battery cover plate, automobile interior, label, etc.

典型用途:公交车蒙皮、垃圾桶、天线罐材料、宽幕墙板、宽屋面板、动力电池外壳及盖板、汽车隔热罩、油箱、水箱、汽车防滑板、汽车内饰、



■ GB/T3880-2012 ASTM B209

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度												Size mm 尺寸	
3003-H24	1	1.5	2	2.5	3	4	5	6	8	10	12	15	16	1250*2500
3003-H112	18	20	22	25	30	35	40	45	50	55	60			1500*3000

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.0-0.6	0.0-0.7	0.05-0.20	1.0-1.5	-	-	0.0-0.1	-	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N/mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
3003 O	110	40	25
3003 H14	165	130	5

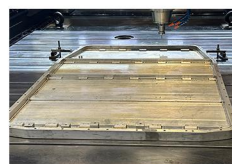


### ■ APPLICATION CASES

应用案例



Wall and roof panels  
墙板及屋顶板



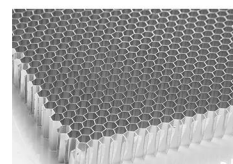
BEV Battery Tray  
新能源车电池托盘



BEV Battery Tray  
新能源电池壳体盖板



Bus skin  
大巴蒙皮



Aluminum honeycomb core  
铝蜂窝芯

## 3A21 Aluminum Plate 铝板

3A21 has a high manganese content and is a widely used rust-proof aluminum. It is suitable for aircraft fuel tanks, oil pipes, rivet wires, etc.; building materials and food and other industrial equipment, body skins, floors, and roofs..

3A21锰含量高,是一种应用广泛的防锈铝。适用于飞机油箱、油路导管、铆钉线材等;建筑材料与食品等工业装备,车体蒙皮,地板,顶板。



■ GB/T3880-2012

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度												Size mm 尺寸	
3A21-H112	12	14	15	16	18	20	25	30	35	40	45	50	55	1500*3000
	60	65	70	75	80									2000*6000

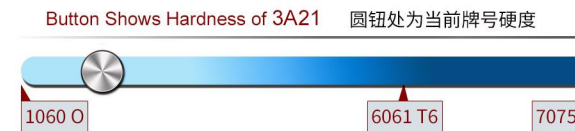
### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.0-0.6	0.0-0.7	0.0-0.2	1.0-1.6	0.0-0.05	-	0.0-0.1	0.0-0.15	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N/mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
3A21 H112	130	-	-



### ■ APPLICATION CASES

应用案例



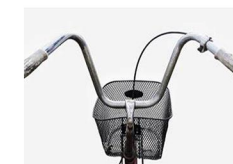
Vehicle fuel tank  
车辆油箱



Food cans  
食品罐



Vehicle skin  
车辆蒙皮



Bicycle handlebars  
自行车把手

## 5052 Aluminum Plate 铝板

5052 is a very popular aluminum-magnesium alloy, which uses for: automobile, 3C products, computer bracket, building curtain wall panel, suitcase, cans/covers, shutters, rod boxes, aluminum furniture, signs, decoration and so on.

广受欢迎的一款铝镁合金。广泛应用于:汽车、3C产品、电脑支架、建筑幕墙面板、箱包、罐/盖、百叶窗、包装盒、铝制家具、标牌、装饰等



■ GB/T3880-2012 ASTM B209 EN485 AMS4016

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度												Size mm 尺寸	
O/H111/H32	0.6	0.8	1	1.2	1.5	2	2.5	3	4	5	6			1250*2500
5052-H112	8	10	12	14	15	16	18	20	22	25	28	30	35	1500*3000
	40	45	50	55	60	65	70	75	80	85	90	100	110	
	120	130	140	150	160	170	180	190	200					2000*6000

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.0-0.25	0.0-0.4	0.0-0.1	0.0-0.1	2.2-2.8	0.15-0.35	0.0-0.1	-	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N/mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
5052 O	170-215	65	18
5052 H112	170	70	10
5052 H32	210-260	130	10



### ■ APPLICATION CASES

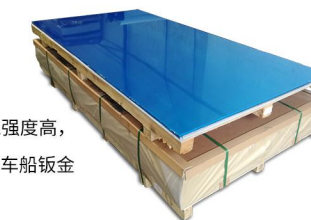
应用案例



## 5754 Aluminum Plate 铝板

5754 is an Al-Mg alloy with a high magnesium content. It has higher strength and better corrosion resistance than 5052. It is commonly used in office equipment, cameras, sheet metal parts of vehicles and ships, housings, instruments and equipment, etc.

5754是镁含量较高的Al-Mg合金, 比5052强度高, 耐腐蚀性能好。常用于办公设备、相机、车船钣金件、外壳、仪器仪表等。



■ GB/T3880-2012 ASTM B209

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度												Size mm 尺寸	
5754-H111 5754-H22	1	1.5	2	2.5	3	4	5	6	8	10	12	15	18	1250*2500 1500*3000
	20	25	30											

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.0-0.4	0.0-0.4	0.0-0.1	0.0-0.5	2.6-3.6	0.0-0.3	0.0-0.2	0.0-0.15	Rem. 余量	Mn+Cr 0.1-0.6

Mechanical Properties 力学性能	Tensile Strength Mpa (N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N/mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
5754 O/H111	195	85	18
5754 H112	200	100	12



### ■ APPLICATION CASES

应用案例





# 5083 Aluminum Plate 铝板

5083 with strong seawater corrosion resistance, is a very good Marine grade aluminum plate, also suitable for aluminum alloy tank car body/fuel tank, automobile fuel tank, gas storage tank, bus skin, car top/bottom protection plate, thick aluminum plate can be used for mold, LNG storage tank, flange material, GIS high voltage switch shell, etc.

5083耐海水腐蚀性强, 是非常好的船板, 还适用于铝合金罐车车身/油箱、汽车油箱、储气罐、客车蒙皮、汽车顶/底保护板, 厚铝板用于模具、LNG储罐、法兰材料、GIS高压开关外壳等。



GB/T3880-2012 ASTM B209 EN485 AMS4056

## ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度												Size mm 尺寸	
	1	1.2	1.5	2	2.5	3	3.6	4	5	6	8	10	12	
5083-O														1500*3000
5083-H111	15	16	18	20	25	30	35	40	45	50	55	60	80	2000*6000
5083-H112	100	110	120	130	140	150	160	170	180	190	200			
5083 O Precision Sawn Plate 精密锯切板	20	25	30	35	40	45	50	55	60	65	70	75	80	2010*3010  2510*5010
	85	90	95	100	110	120	130	140	150	160	170	180	190	
	200	210	220	230	240	250	260	270	280	290	300	310	320	
5083 O Super-flat Milled Plate 超平铣面板	8	10	12	12.7	14	15	16	20	25	25.4	30	35	40	1600*4000
	45													

## ■ DATA (REFERENCE VALUE)

数据 (参考值)

### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.0-0.4	0.0-0.4	0.0-0.1	0.4-1.0	4.0-4.9	0.05-0.25	0.0-0.25	0.0-0.15	Rem. 余量	-

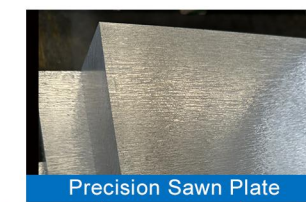
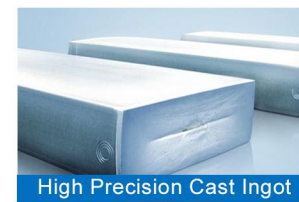
Mechanical Properties 力学性能	Tensile Strength Mpa (N / mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N / mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
5083 O/H111	290	145	15
5083 H112	295	145	12
5083 H32	315	220	9

Button Shows Hardness of 5083 圆钮处为当前牌号硬度



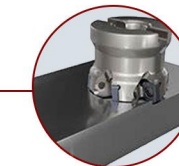
## ■ SPECIAL RECOMMENDATION

特别推荐



Transverse and longitudinal sawing  
横向和纵向锯切

Milled upper & lower surface  
上下表面经过铣面



High purity aluminum raw material  
采用高纯原材料  
Strictly control the proportion of ingredients  
严格控制成分比例  
Strictly control the production process  
严格控制生产工艺

It has very high uniformity  
具有非常高的均匀性  
Low internal stress in all four directions,  
四面应力低  
Dimensional stability, easy processing.  
尺寸稳定性, 易加工

All the features of the left side  
具备左侧所有特点  
Milling surfaces of the upper and lower  
上下两个平面的铣面  
Flatness < 0.1mm/m<sup>2</sup>  
平面度 < 0.1mm/m<sup>2</sup>

Domain 应用领域	Typical Cases 典型案例	Application Performance 应用性能
Tooling and Mold 工模具	Mold, tooling, fixture, gage 模具、工装、治具、检具	Very low internal stress, easy to process, and machining invariance 极低的内应力, 易加工, 且机加工不变性
Machine Work 机加工	Equipment panel, backplane, parts 设备面板、背板、机械零部件	Easy to process, good dimensional stability 易加工, 良好的尺寸稳定性
Communications Industry 通讯行业	Base station radiator plate 基站散热器板	Good thermal and electrical conductivity 良好导热、导电性好
Liquid Crystal Manufacturing 液晶制造	TFT-LCD 液晶显示屏	Good dimensional stability, processing without deformation 良好的尺寸稳定性, 加工不变形
Industrial Robot 工业机器人	Industrial robot actuator 工业机器人执行机构	Good dimensional stability 良好的尺寸稳定性
Armamentarium 医疗器械	CT instrument CT仪器设备	Excellent corrosion resistance, good dimensional stability 耐腐蚀能力优异, 良好的尺寸稳定性
Optical Instrument 光学仪器	Optical instrument 光学仪器设备	Good dimensional stability 良好的尺寸稳定性
Automation 自动化	Automation equipment platform 自动化设备平台	Good flatness, thickness tolerance 良好的平面度, 厚度公差
Electron Industry 电子行业	Electronic equipment parts 电子设备零部件	Good dimensional accuracy 良好的尺寸精度
Semiconductor 半导体	Semiconductor manufacturing unit 半导体制造装置	Large size specifications, high uniformity 超大的尺寸规格, 各项同性
Vacuum Chamber 真空腔室	Equipment vacuum chamber, chamber 设备真空室, 腔体	Very low internal stress, easy to process, machining invariance 极低的内应力, 易加工, 且机加工不变性

## ■ APPLICATION CASES

应用案例



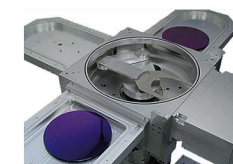
Watercraft Plate 船板



LNG Ships LNG船舶



Tank Truck Material 罐车料



Vacuum Chamber 真空腔体

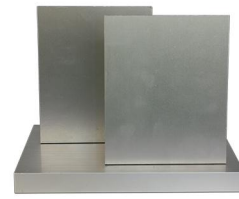


Medical Devices 医疗设备

## 5A06 Aluminum Plate 铝板

The magnesium content of 5A06 alloy is higher than that of 5083, and it has excellent corrosion resistance. It is often used in welding structures, cold die forging parts, welding and pulling container load-bearing parts, aircraft skin and bone parts, etc.

5A06合金镁的含量比5083更高，耐蚀性优越。常用于焊接结构，冷模锻零件，焊拉容器受力零件，飞机蒙皮骨部件等。



■ GB/T3880-2012 ASTM B209 EN485 AMS4016

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度												Size mm 尺寸	
5A06-H112	8	10	12	15	18	20	25	30	35	40	45	50	55	1525*3660
	60	65	70	75	80	85	90	100	110	120				

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.0-0.4	0.0-0.4	0.0-0.1	0.5-0.8	5.8-6.8	-	0.0-0.2	0.02-0.1	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N / mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N / mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
5A06 H112	305	165	16



### ■ APPLICATION CASES

应用案例



Fuel tank 油料箱

LNG Storage Tanks LNG储罐

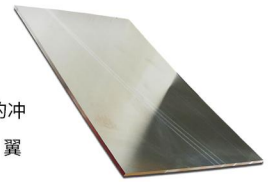
Watercraft Industry 船舶行业

Cavity 腔体

## 6016 Aluminum Plate 铝板

6016 is an aluminum alloy widely used in the automotive industry, with excellent stamping, flanging, and bake hardening properties. It is commonly used in trunk covers, fenders, vehicle frames, body panels, structural parts, etc.

6016是广泛用于汽车工业的铝合金，具备优良的冲压、翻边、烘烤硬化性能。常用于行李箱盖板、翼子板，车辆的骨架、车身覆盖件、结构件等。



■ GB/T3880-2012 ASTM B209 EN485 AMS4016

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度												Size mm 尺寸	
5A06-H112	8	10	12	15	18	20	25	30	35	40	45	50	55	1525*3660
	60	65	70	75	80	85	90	100	110	120				

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
1.0-1.5	0.0-0.5	0.0-0.2	0.0-0.2	0.25-0.6	0.0-0.1	0.0-0.2	0.0-0.15	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N / mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N / mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
6016 T4/T4P	220	110	20



### ■ APPLICATION CASES

应用案例



Automotive outer Door 车门外板

Automotive Roof 汽车顶板

Automotive Engine Hood 引擎盖

Automotive Trunk Lip 行李箱盖板

Automotive Industry 汽车行业板

# 6061 Aluminum Plate 铝板

6061 is a popular aluminum alloy in the world, with very high cost performance and huge sales. Commonly used in automatic machine parts, mobile phone card slots, mobile phone cases, molds, automobiles, precision machining, mold manufacturing, electronics and precision instruments, structural engineering, etc.

6061是全球广受欢迎的铝合金，性价比非常高，销售量巨大。常用于自动机器零件、手机卡槽、手机壳、模具、汽车、精密机械加工、模具制造、电子及精密仪器、结构工程等。



■ GB/T3880-2012 ASTM B209 EN485 AMS4027

## ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
6061-T6	1	1.2	1.5	2	2.5	3	4	5	6	6.35	8	10	12	1250*2500 1500*3000
	12.7	14	15	16	18	20	22	25	28	30	32	35	40	
	45	48	50	55	60	65	70	75	80	85	90	95	100	1500*3000
	105	110	115	120	125	130	135	140	145	150	155	160	170	
	180	190	200	210	220	230	240	250	260	270	280	290	300	2000*5000
	310	320	330	340	350	360	370	380	390	400	410	420	430	
	440	450												
6061-T651	8	10	12	14	15	16	18	20	22	25	30	35	40	1525*3660 2000*5000 2200*6000
	45	50	55	60	65	70	75	80	85	90	95	100	110	
	120	130	140	150	160	170	180	190	200					

## ■ DATA (REFERENCE VALUE)

数据 (参考值)

### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.4-0.8	0.0-0.7	0.15-0.40	0.0-0.15	0.8-1.2	0.04-0.35	0.0-0.25	0.0-0.15	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N / mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N / mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
6061 T6	310	275	12

Button Shows Hardness of 6061 圆钮处为当前牌号硬度



## ■ WHY CHOOSE T651

为什么选择T651(推荐)

# 6061

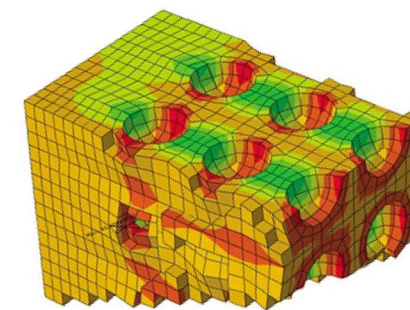


On the basis of T6, the aluminum plate becomes T651 after stretching, and the internal stress is released, it is not easy to deformation when processing.

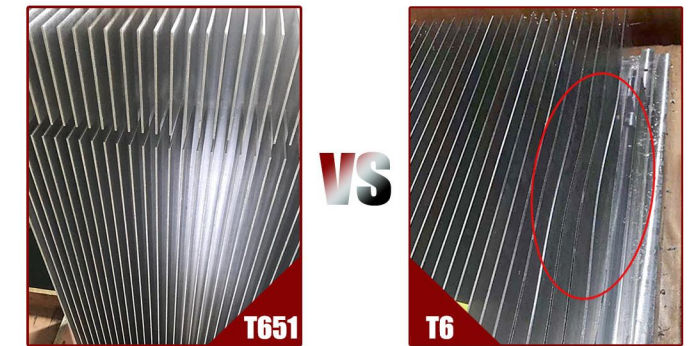
T6基础上，铝板进行拉伸后成为T651，拉伸后内应力得到释放，加工不容易变形。



▲ The aluminum plate is being stretched 铝板在进行拉伸加工中



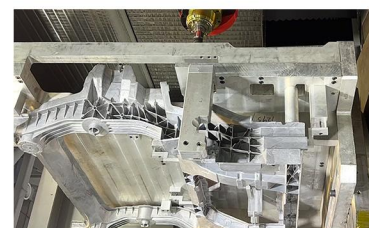
▲ Deformation caused by internal stress 内应力导致变形的模型



▲ Comparison of Plate T6 and T651 processing examples T6及T651板材加工变形量实例对比

## ■ SPECIAL REQUIREMENTS

特殊规格



Super thick aluminum plate processing parts 厚板加工设备主体



Processed ultra-wide and ultra-long plate 宽度最大可达3米



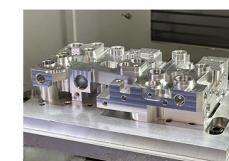
Super flat plate with <0.1mm / m<sup>2</sup> flatness 超平板平整度可达10丝每平方米以内

## ■ APPLICATION CASES

应用案例



Bottle Mold 瓶模



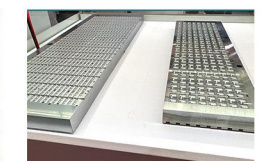
Precision Machined Parts 精密工件



3C Electronics 3C电子



Industrial Robots 工业机器人

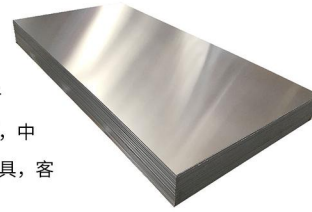


SC Equipment Parts 半导体装备部件

## 6063 Aluminum Plate 铝板

6063 aluminum alloy has excellent anodizing properties. Thin plates are often used to process automobile chassis, auto parts, mobile phone accessories, etc. Medium and thick plates are often used for skived radiators, automobile wheel aluminum plates, molds, bus body structural parts, etc.

6063铝合金阳极氧化性能优良，薄板常用于加工汽车车底板，汽车零部件，手机配件等，中厚板常用于铲齿散热器，汽车轮毂铝板，模具，客车车体结构件等。



■ GB/T3880-2012 EN485

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
6063-T6	1	2	3	4	5	6	8	10	12	15	16	18	20	1250*2500 1500*3000
	22	25	28	30	35	40	45	50	55	60	65	70	80	
	90	100	110	120										
6063-T651	10	12	15	16	18	20	22	25	28	30	35	40	45	1525*3660
	50	55	60	65	70	75	80	85	90	100				

■ T651 is not easy to deformation by processing, which pre-stretched with more less internal stress.

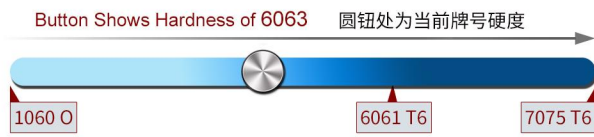
### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.2-0.6	0.0-0.35	0.0-0.1	0.0-0.1	0.45-0.9	0.0-0.1	0.0-0.1	0.0-0.1	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N / mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N / mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
6063 T6	240	215	12



### ■ APPLICATION CASES

应用案例



Communication Cavity  
通讯腔体

Wheel Hub  
汽车轮毂

Phone Cases  
手机壳

Electronics  
电子产品

Skived Heat Sink  
铲齿散热片

## 6082 Aluminum Plate 铝板

6082 is similar to 6061, but stronger than 6061. It is widely used in Europe and is often used in building and bridge structures, automobile frames and suspension components, electromechanical equipment frames and panels, sports equipment, electrical housings, mold manufacturing, etc.

6082与6061相似，比6061强度更高，在欧洲使用量极大，常用于建筑和桥梁结构，汽车车架和悬挂部件，机电设备框架及面板，运动器具，电器外壳，模具制造等等。



■ GB/T3880-2012 EN485

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
6082-T6	1	1.5	2	3	4	5	6	8	10	12	15	16	18	1250*2500 1500*3000
	20	22	25	28	30	35	40	45	50	55	60	65	70	
	75	80	85	90	100	110	120							
6082-T651	10	12	15	16	18	20	22	25	28	30	35	40	45	1525*3660
	50	55	60	65	70	75	80	85	90	100				

■ T651经过预拉伸释放应力，加工尺寸更精准，不容易变形

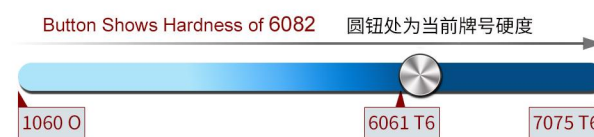
### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

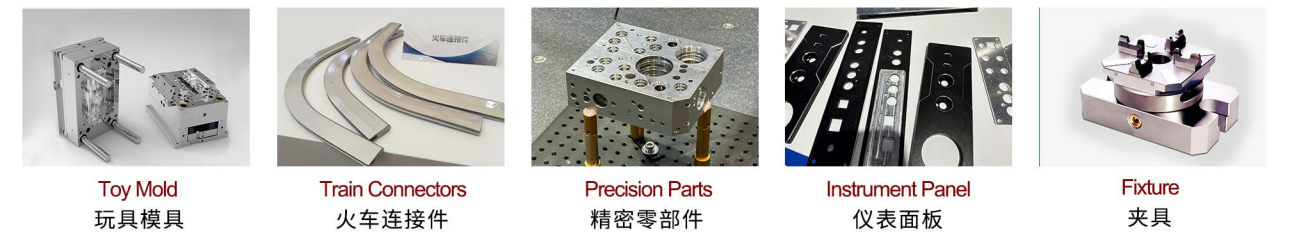
Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.7-1.3	0.0-0.5	0.0-0.1	0.4-1.0	0.6-1.2	0.0-0.25	0.0-0.2	0.0-0.1	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N / mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N / mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
6082 T6	330	290	9



### ■ APPLICATION CASES

应用案例



Toy Mold  
玩具模具

Train Connectors  
火车连接件

Precision Parts  
精密零部件

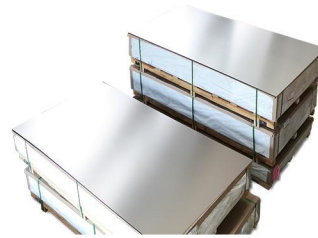
Instrument Panel  
仪表面板

Fixture  
夹具

## 7050 Aluminum Plate 铝板

7050-T7451 has high strength, excellent corrosion resistance and stress corrosion cracking resistance, and is an aluminum alloy widely used in the aerospace field. In recent years, 7050-T651 has also been used in fields that require high-strength molds and high-end industrial equipment.

7050-T7451具备高强度，优良的耐腐蚀剥落与抗应力腐蚀开裂能力，是广泛使用于航空航天领域的铝合金。近年来7050-T651也应用于需要高强度模具和高端工业装备领域。



■ GB/T3880-2012

### ■ SIZES IN STOCK

### 现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
7050-T651	12	15	18	20	25	30	35	40	45	50	55	60	65	1525*3660
	70	75	80	85	90	95	100	105	110	115	120	125	130	
7050-T7451	20	25	30	35	40	45	50	55	60	65	70	75	80	1525*3660
	90	100	110	120										

### ■ DATA (REFERENCE VALUE)

### 数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.0-0.12	0.0-0.15	2.0-2.6	0.0-0.1	1.9-2.6	0.0-0.04	5.7-6.7	0.0-0.06	Rem. 余量	Zr0.08-0.15

Mechanical Properties 力学性能	Tensile Strength Mpa (N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N/mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
7050 T7451	525	470	—
7075 T651	510	496	10



### ■ APPLICATION CASES

### 应用案例



## 7A04 7A09 Aluminum Plate 铝板

7000 series is Al-Zn-Mg-Cu alloy with high strength. It is mainly used in the aviation field such as aircraft skin, screws, and load-bearing components such as beam trusses, bulkheads, wing ribs, landing gear, etc.

7000系属Al-Zn-Mg-Cu合金，强度高，主要应用于航空领域如飞机蒙皮、螺钉，以及受力构件如大梁桁条、隔框、翼肋、起落架等。



■ GB/T3880-2012

### ■ SIZES IN STOCK

### 现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
7A04-T6	1	1.5	2	2.5	3	4	5	6	8	10	12	15	18	1250*2500
	20	22	25	28	30	35	40	45	50	55	60	65	70	
	75	80	85	90	95	100	110	120	130	140	150	160	180	
7A09-T6	1	1.5	2	2.5	3	4	5	6	8	10	12	15	18	1250*2500
	20	22	25	28	30	35	40	45	50	55	60	65	70	
	75	80	85	90	95	100	110	120	130	140	150	160	170	

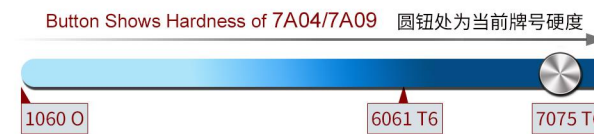
### ■ DATA (REFERENCE VALUE)

### 数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Grade	Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
7A04	0.0-0.5	0.0-0.5	1.4-2.0	0.2-0.6	1.8-2.8	0.1-0.25	5.0-7.0	0.0-0.1	Rem.	-
7A09	0.0-0.5	0.0-0.5	1.2-2.0	0.0-0.15	2.0-3.0	0.16-0.3	5.1-6.1	0.0-0.1	Rem.	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N/mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
7A04 T6	510	430	7
7A09 T6	510	430	4



### ■ APPLICATION CASES

### 应用案例



# 7075 Aluminum Plate 铝板

It is a world-renowned hard aluminum, widely used in aerospace, mold industry and high-end industrial manufacturing. In recent years, it has also been widely used in civilian products, such as 3C products, bicycle frames, rock climbing equipment, golf heads, ski poles, baseball rackets and tennis rackets, etc.

全球知名的硬铝，广泛用于航空航天，模具行业及高端工业制造。近年来在民用品上使用也非常多，比如3C产品，自行车车架，攀岩设备，高尔夫球头，滑雪杖，棒球拍和网球拍等。



■ GB/T3880-2012 ASTM B209 EN485 AMS4016

## ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
7075-T6	1	1.5	2	2.5	3	4	5	6	8	10	12	14	15	1250*2500
	16	18	20	22	25	28	30	35	40	45	50	8	10	
	12	14	15	16	18	20	22	25	28	30	32	35	40	1500*3000
	45	50	55	60	65	70	75	80	85	90	95	100	105	
	110	115	120	125	130	140	150	160	170	180	190	200	210	
220	230	240	250	260										2000*4000
7075-T651	8	10	12	14	15	16	18	20	22	25	28	30	32	1525*3660
	35	40	45	50	55	60	65	70	75	80	85	90	95	
	100	105	110	115	120	125	130	140	150	160	170	180	190	2000*4020
	200	210	220	230	240	250	260							
7075-T652 锻板 Forging Plate	250	260	270	280	290	300	310	320	330	340	350	360	380	1525*3660
	400	420	450	460	470	480	490	500						

## ■ DATA (REFERENCE VALUE)

数据 (参考值)

### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.0-0.4	0.0-0.5	1.2-2.0	0.0-0.3	2.1-2.9	0.18-0.28	5.1-6.1	0.0-0.2	Rem. 余量	Ze+Ti 0.25

Mechanical Properties 力学性能	Tensile Strength Mpa (N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N/mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
7075 T6	570	505	11

Button Shows Hardness of 7075 圆钮处为当前牌号硬度



Other Properties 其他性能  
 [E] excellent 优 [F] fair 中  
 [G] good 良 [P] poor 差



## ■ WHY CHOOSE T651

为什么选择T651



On the basis of T6, the aluminum plate becomes T651 after stretching, and the internal stress is released, it is not easy to deformation when processing.

T6基础上，铝板进行拉伸后成为T651，拉伸后内应力得到释放，加工不容易变形。



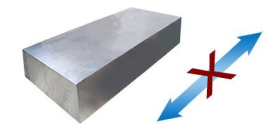
- ✓ Precision workpiece 精密工件
- ✓ Premium Products 高端产品



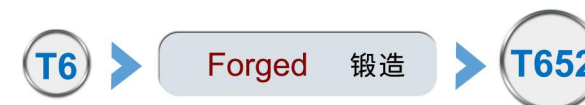
▲ The aluminum plate is being stretched 铝板在进行拉伸加工中

## ■ WHY CHOOSE T652

为什么选择T652



Thickness>250mm, it is too thick to be stretched by the machine. 铝板厚度较厚如>250mm, 机器将无法拉伸, 只能使用锻造工艺



After heating, the aluminum plate is permanently deformed by forging pressure, and the internal stress is released.

加热后通过锻造加压使铝板产生永久性变形，释放内应力。



▲ The aluminum plate is ready for forging 铝板准备进行锻造加工



▲ Forged parts 锻件

- Internal organization to be fully extended and get smaller grain size 使粗大晶粒细化，得到致密的金属组织。
- Through ultrasonic flaw detection to reduce trachoma, stomata and other bad problems. 经过超声波探伤可减少沙眼、气孔等不良问题。
- Stress relief improves resistance to stress corrosion cracking and other forms of metal fatigue. 应力释放提高抗应力腐蚀开裂和其他形式的金属疲劳。



## ■ APPLICATION CASES

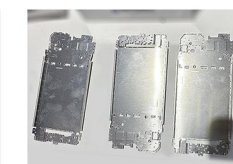
应用案例



Aircraft structural parts 飞机结构件



Shoe mold 鞋模



Mobile phone frame 手机中框



Ultrasonic welding joint 超声波焊接头



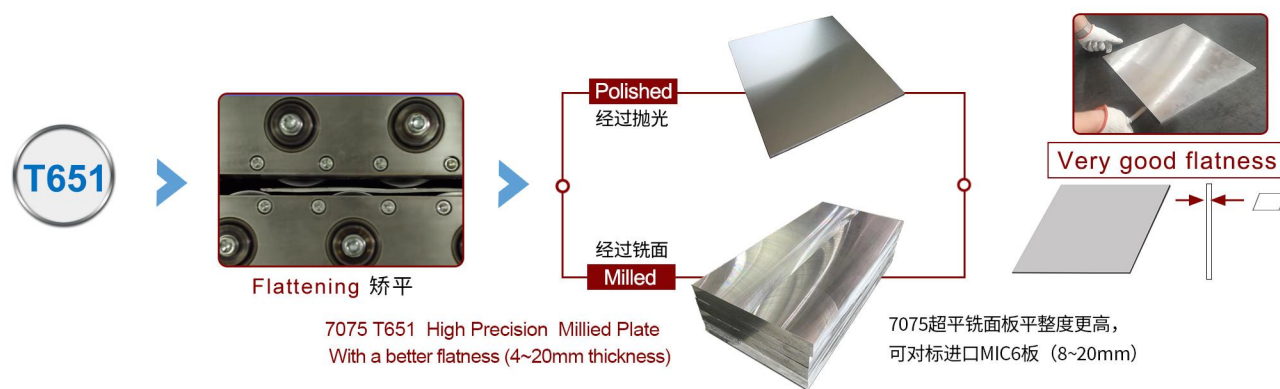
Golf club heads 高尔夫球杆头

## Special Introduction 特殊介绍

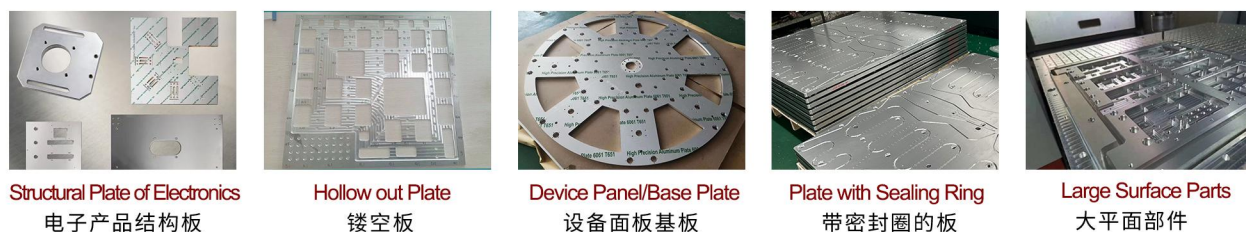
### ■ HIGH PRECISION SUPER FLAT ALUMINUM PLATE & HIGH PRECISION MILLIED PLATE 高精超平铝板&铣面板

Alloy 合金	Temper 状态	Thickness 厚度 mm	Thickness Tolerance mm 厚度公差	Flatness 平整度	Regular size 常规尺寸mm	Advantages 优点	Applications 用途
6061	T651	2~2.5	-0.01~+0.07	0.3mm/m <sup>2</sup>	1250/1525	1,400 mesh polishing, no surface defects, can be directly anodized 2, Small thickness tolerance, good flatness 3, Aluminum plate is de-stressed, stable in use.  1,400目抛光, 表面无瑕疵, 可直接阳极氧化 2, 厚度公差好, 平面度好 3, 铝板去内应力, 使用稳定	Suitable for: hollowed-out work. 1, The surface does not need to be milled, the surface is not processed products, can be directly use. 2, Applications: automation desktop panels, communication components, medical machinery, etc. 适用于: 全镂空产品 1, 表面无需铣面, 表面不加工产品, 可直接做成品用 2, 应用领域: 自动化台面板、通讯零部件医疗机械等
		3~6.35	-0.01~+0.07	0.2mm/m <sup>2</sup>	2000*6000		
		7~12	±0.1	0.1mm/m <sup>2</sup>	2000*6000		
		15~22	±0.1	0.2mm/m <sup>2</sup>	2000*5000		
		25~30	±0.1	0.2mm/m <sup>2</sup>	2000*5000		
7075	T651	2~12	0~+0.1	0.1-0.5mm/m <sup>2</sup>	1250*2500 1250*5000	1, Small thickness tolerance, good flatness. 2, 400 mesh polishing, do not need milling. 3, Can be anodized directly.  1, 厚度公差好, 平面度好 2, 400目抛光, 免铣面 3, 可直接阳极氧化	Suitable for: Products with strength requirements 适用于: 有强度要求产品
		13~15	-0.05~+0.1	0.7mm/m <sup>2</sup>	1250*2500 1250*5000		
		16~20	-0.1~+0.1	0.9mm/m <sup>2</sup>	1250*2500 1250*5000		

■ Other grades of super flat aluminum can be customized, such as 5052, 6063 可接受其他牌号超平铝板的定制



### ■ APPLICATION CASES 应用案例



### ■ AMERICAN / EUROPEAN STANDARD ALUMINUM PLATE IN STOCK 美标/欧标铝板现货

Alloy 合金	Temper 状态	Executive Standard 执行标准	Regular Stock Thickness 常规现货厚度	Also Accord With 同时符合 (国标)
2024	T351	AMS 4037Q	5-200mm	GB/T 29503-2013
		AMS-QQ-A-250		
5052	H112	EN485	5-160mm	GB/T3880.2-2012
		ASTM B209		
5052	H112	AMS-QQ-A-250	10-200mm	GB/T3880.2-2012
		EN485		
5083	H111	EN485	5-160mm	GB/T3880.2-2012
		ASTM B209		
5083	H111	AMS-QQ-A-250	6-240	GB/T3880.2-2012
		EN485		
6061	T6	EN485	5-160mm	GB/T 29503-2013
		ASTM B209		
6061	T651	AMS 4027N	6-200mm	GB/T 29503-2013
		AMS-QQ-A-250		
7075	T651	AMS 4045L	10-160mm	GB/T 29503-2013
		AMS-QQ-A-250		
7075	T652	ASTM B247M-2009	270-390 mm	

■ Please contact us for the latest stock 联系我们获得最新库存

### ■ AEROSPACE STANDARD ALUMINUM PLATE 航空航天标准铝板

Alloy Name 名称	Main Application	主要用途
AMS-6061 Plate	This product is an aerospace standard-compliant material of A6061 aluminum. Mainly used for aircraft equipment components. As of 2008, U.S. federal standard "AMS-QQ-A250/11" changed to AMS standard "AMS-4027".	符合航空航天标准的6061铝合金材料。主要用于飞机设备部件。
AMS-QQ-A-2024 Plate	This product is an aircraft standard-compliant material of A2024 aluminum. With their high level of strength, these products are used for a wide range of components equipped on aircrafts and structural materials for satellites.	符合航空航天标准的2024铝合金材料, 广泛用于飞机上的部件和卫星的结构材料。
AMS-QQ-A-7075 Plate	This product is an aerospace standard-compliant material of A7075 aluminum. Main uses include major structural components for aircraft and structural components for satellites and space applications.	符合航空航天标准的7075铝合金材料。主要用于飞机、卫星和空间的结构部件。

### ■ EXPLANATION OF STANDARD 关于标准

Standard Name	Explanation of Standard	标准解释
EN	Standard issued by the European Committee for Standardization	欧盟标准
ASTM	Standard established and issued by the American Society for Testing and Materials	美标 (美国材料与实验学会标准)
AMS	Standard issued by the Society of Automotive Engineers (U.S.)	美标 (美国宇航材料标准), 高于ASTM标准
GB/T	Standard established and issued by the China	中国国标

## 1060 Aluminum Rod 铝棒

1060 aluminum rod is used for conductive materials such as wire busbars, with a conductivity of 61% (IACS%). It can also be used in food, chemical, pipelines, hot delivery facilities, decorations and other occasions where low strength is required.

1060铝棒用于电线母线等导电材料、导电率61% (IACS%)，也可以用于食品、化工、管道、热交货设施、装饰品等需要强度不高的场合。



■ GB/T 3191

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
1060-H112	10	15	20	25	30	35	40	45	50	55	60	65	70	2500 3000
	75	80	90	100	110	120	130	140	150	160	170	180	190	
	200	210	220	230	240	250	260	270	280	290	300			

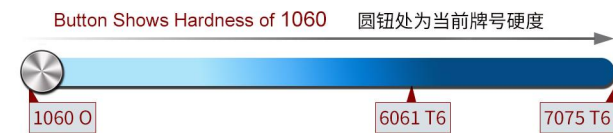
### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.0-0.25	0.0-0.35	0.0-0.05	0.0-0.03	0.0-0.03	-	0.0-0.05	0.0-0.03	99.60以上	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N/mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
1060 H112	70	25	22



### ■ APPLICATION CASES

应用案例



## 2011 Aluminum Rod 铝棒

2011 is a free-cutting alloy, commonly used in free-cutting rods on automatic machinery, with high strength but poor corrosion resistance..

2011是易切削合金，常用于自动机械上的易切削棒，强度高，但耐腐蚀性能较差。



■ GB/T 3191

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
2011-T6	18	20	25	30	35	40	45	50	55	60	65	70	75	2500 3000
	80	85	90	95	100	110	120	130	140	150				

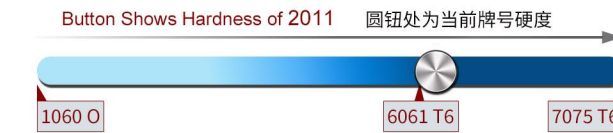
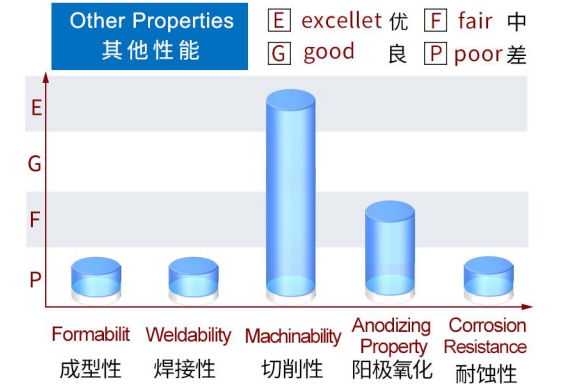
### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.0-0.4	0.0-0.7	5.0-6.0	-	-	-	0.0-0.3	-	Rem. 余量	Bi 0.2-0.6 Pb 0.2-0.6

Mechanical Properties 力学性能	Tensile Strength Mpa (N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N/mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
2011 T6	395	290	22



### ■ APPLICATION CASES

应用案例





## 2014 Aluminum Rod 铝棒

Suitable for aircraft heavy, forgings, thick plates and extrusions, wheels and structural parts, spacecraft parts, truck frames and suspension components.

适用于飞机重型、锻件、厚板和挤压材料，车轮与结构件，航天器零件，卡车构架与悬挂部件。



■ GB/T 3191

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
2014-T1	20	25	30	35	40	45	50	55	60	65	70	80	100	2500
2014-T6	110	120	130	140	150	160	170	180	190	200	210	220	230	
	240	250	260	270	280	290	300							3000

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.5-1.2	0.0-0.7	3.9-5.0	0.4-1.2	0.2-0.8	0.0-0.1	0.0-0.25	0.0-0.15	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N / mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N / mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
2014 T6	485	415	11



### ■ APPLICATION CASES

应用案例



## 2017 Aluminum Rod 铝棒

2000 series Al-Cu alloy with high copper content. Excellent cutting performance. Suitable for rivets, general mechanical parts, structural and transportation vehicle components, propellers and accessories.

含铜量高的2000系Al-Cu合金。切削性能优越。适用于铆钉、通用机械零件、结构与运输工具结构件，螺旋桨与配件。



■ GB/T 3191

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
2017-T4	8	10	12	15	18	20	25	30	32	35	40	45	50	2000-4000
	55	60	65	70	75	80	85	90	95	100	110	120	130	
	140	150	160	170	180	190	200	210	220	230	240	250	260	
	270	280	290	300										

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.2-0.8	0.0-0.7	3.5-4.5	0.4-1.0	0.4-0.8	0.0-0.1	0.0-0.25	0.0-0.15	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N / mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N / mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
2017 T4	425	275	20



### ■ APPLICATION CASES

应用案例



## 2024 2A12 Aluminum Rod 铝棒

The popular 2000 series AL-Cu alloy has high strength and excellent cutting performance. It is suitable for aircraft structures, automobile parts, military equipment, sports equipment, marine parts, various industrial parts and structural parts, etc.

广受欢迎的2000系AL-Cu合金，强度高，切削性能优越。适用于飞机结构、汽车零部件、军事装备、体育器材、船用部件、各种工业的零部件及结构件等。



■ GB/T 3191 EN 755 AMSQQA200/3

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
	8	10	12	15	18	20	25	30	32	35	40	45	50	
2024-T4/T351 /H112	55	60	65	70	75	80	85	90	95	100	105	110	115	3000
	120	125	130	135	140	145	150	155	160	165	170	175	180	
2A12-T4 /T351 /H112	185	190	195	200	210	220	230	240	250	260	270	280	290	3480
	300	310	320	330	340	350	360	370	380	390	400	410	420	
	430	440	450	460	480	500	520	550	580	600				

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Grade	Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Zn 锌	Ti 钛	Al 铝	Others 其它
2024	0.0-0.5	0.0-0.5	3.8-4.9	0.3-0.9	1.2-1.8	0.0-0.25	0.0-0.15	Rem. 余量	Cr 0.0-0.1
2A12	0.0-0.5	0.0-0.5	3.8-4.9	0.3-0.9	1.2-1.8	0.0-0.3	0.0-0.15	Rem. 余量	Ni 0.0-0.1

Mechanical Properties 力学性能	Tensile Strength Mpa (N / mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N / mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
2024 T4	470	325	17
2A12 H112	450	305	17

Button Shows Hardness of 2024 圆钮处为当前牌号硬度



2A12性能和2024性能均一致



### ■ APPLICATION CASES

应用案例



Aircraft parts  
飞机零部件

Industrial Robot Arm  
工业机械臂

Sports Equipment  
运动器材

Shaft for Automotive  
汽车轴

Mold  
模具

## 2A11 Aluminum Rod 铝棒

2000 series Al-Cu alloy with high copper content. Excellent cutting performance. Suitable for medium-strength bolts and rivets in aircraft, transportation vehicles and building structures.

含铜量高的2000系Al-Cu合金。切削性能优越。适用于航空器的中等强度的螺栓与铆钉,交通运输工具与建筑结构件。



■ GB/T 3191

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
	20	30	40	50	60	70	80	90	100	110	120	130	140	
2A11-T4	150	160	170	180	190	200	210	220	230	240	250	260	270	2000-4000
	280	290	300											

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分 2A11

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.0-0.7	0.0-0.7	3.8-4.8	0.4-0.8	0.4-0.8	-	0.0-0.3	0.0-0.15	Rem. 余量	Fe+Ni 0.7

Mechanical Properties 力学性能	Tensile Strength Mpa (N / mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N / mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
2A11 T4	390	215	15

Button Shows Hardness of 2A11 圆钮处为当前牌号硬度



### ■ APPLICATION CASES

应用案例



Equipment Outer Shell  
电器及设备外壳

LCD backplane  
液晶背板

Laptop Stand  
笔记本支架

Carved decorative plate  
雕花装饰铝板

Aluminum suitcase  
旅行拉杆箱

## 2A50 Aluminum Rod 铝棒

2A50 alloy has extremely high plasticity in hot state, which facilitates forging and stamping operations and is often used for medium-strength parts with complex shapes.

2A50合金在热状态下，具有极高的可塑性，便于进行锻造和冲压操作，常用于形状复杂的中等强度零件。



■ GB/T 3191

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
2A50-T1	20	30	40	50	60	70	80	90	100	110	120	130	140	2000-4000
2A50-T6	150	160	170	180	190	200	210	220	230	240	250	260	270	
	280	290	300	310	320	330	340	350						

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.7-1.2	0.0-0.7	1.8-2.6	0.4-0.8	0.4-0.8	-	0.0-0.3	0.0-0.15	Rem. 余量	Fe+Ni 0.7

Mechanical Properties 力学性能	Tensile Strength Mpa (N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N/mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
2A50 T1/T6	370	-	12



### ■ APPLICATION CASES

应用案例



## 2A70 Aluminum Rod 铝棒

2A70 alloy has extremely high plasticity in hot state, which facilitates forging and stamping operations. It is often used in aircraft engine pistons, guide wheels, wheels, etc.

2A70合金在热状态下，具有极高的可塑性，便于进行锻造和冲压操作，常用于航空器发动机活塞、导风轮、轮盘等。



■ GB/T 3191

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
2A70-T1	20	30	40	50	60	70	80	90	100	110	120	130	140	2000-4000
2A70-T6	150	160	170	180	190	200	210	220	230	240	250	260	270	
	280	290	300	310	320	330	340	350						

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.0-0.35	0.9-1.5	1.9-2.5	0.0-0.2	1.4-1.8	-	0.0-0.3	0.02-0.1	Rem. 余量	Ni 0.9-1.5

Mechanical Properties 力学性能	Tensile Strength Mpa (N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N/mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
2A70 T1/T6	370	-	8



### ■ APPLICATION CASES

应用案例



## 3003 Aluminum Rod 铝棒

Typical uses: bus skins, trash cans, antenna tank materials, wide curtain wall panels, wide roof panels, power battery housings and covers, automotive heat shields, fuel tanks, water tanks, automotive anti-skid plates, automotive interiors, labels, etc.

典型用途:公交车蒙皮、垃圾桶、天线罐材料、宽幕墙板、宽屋面板、动力电池外壳及盖板、汽车隔热罩、油箱、水箱、汽车防滑板、汽车内饰、标签等



■ GB/T 3191

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度												Size mm 尺寸	
3003-H112	8	10	12	15	18	20	25	30	35	40	45	50	55	2500 3000
	60	65	70	75	80	85	90	95	100					

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.0-0.6	0.0-0.7	0.05-0.2	1.0-1.5	-	-	0.0-0.1	-	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N / mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N / mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
3003 H112	110	40	27



### ■ APPLICATION CASES

应用案例



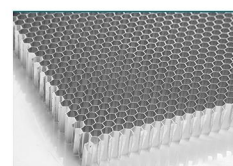
Food Equipment 食品设备



Chemical Equipment 化工设备



Car Radiator 汽车散热器



Aluminum honeycomb core 铝蜂窝芯

## 3A21 Aluminum Rod 铝棒

3A21 has a high manganese content and is a widely used rust-proof aluminum. The rod is suitable for oil pipes, rivet wires, etc.; building materials and food and other industrial equipment.

3A21锰含量高,是一种应用广泛的防锈铝。棒材适用油路导管、铆钉线材等;建筑材料与食品等工业装备。



■ GB/T 3191

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度												Size mm 尺寸	
3A21-H112	20	30	40	50	60	70	80	90	100	110	120	130	140	2500 3000
	150	160												

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.0-0.6	0.0-0.7	0.0-0.2	1.0-1.6	0.0-0.05	-	0.0-0.1	0.0-0.15	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N / mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N / mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
3A21 H112	130	-	22



### ■ APPLICATION CASES

应用案例



Bicycle handlebars 自行车把手



Aluminum Rivet 铆钉



Food Equipment Parts 食品设备零件



Chemical Equipment Parts 化工设备零件

## 4032 Aluminum Rod 铝棒

It is an Al-Si alloy with high silicon content, small thermal expansion coefficient and good wear resistance. It is widely used in pistons and cylinders of motor vehicles.

属于Al-Si合金，硅含量高，热膨胀系数小，耐磨耗性好，广泛用于机动车的活塞、缸体等。



■ GB/T 3191

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
4032-T1	20	30	40	50	60	70	80	90	100	110	120	130	140	2500 3000

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

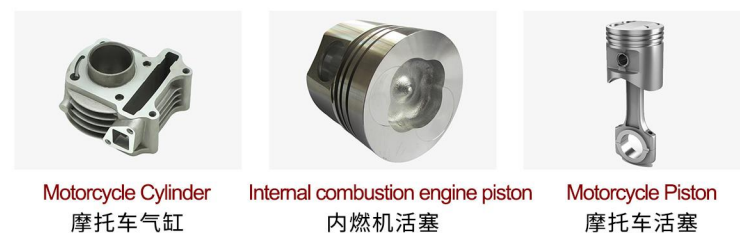
Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
11.0-13.5	0.0-1.0	0.5-1.3	-	0.8-1.3	0.0-0.1	0.0-0.25	-	Rem. 余量	Ni 0.5-1.3

Mechanical Properties 力学性能	Tensile Strength Mpa (N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N/mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
4032 T1	370	300	9



### ■ APPLICATION CASES

应用案例



## 5052 Aluminum Rod 铝棒

5052 aluminum bars are often used for sheet metal parts of transportation vehicles and ships, instruments, street lamp brackets and rivets, furniture hardware products, office supplies, household appliances and surface parts of daily necessities, especially products that require anodizing.

5052铝棒常用于机动车辆、船舶的钣金件，仪表、街灯支架与铆钉、家具的五金制品，办公用品、家用电器和日用品的表面件。尤其是需要阳极氧化的产品。



■ GB/T 3191

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
5052-H112	5	6	8	10	12	13	15	18	20	25	30	35	40	2500 3000
	45	50	55	60	65	70	75	80	85	90	95	100	110	
	120	130	140	150	160	170	180	190	200					

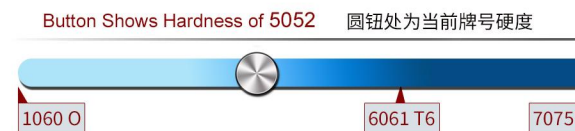
### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.0-0.25	0.0-0.4	0.0-0.1	0.0-0.1	2.2-2.8	0.15-0.35	0.0-0.1	-	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N/mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
5052 H112	195	90	12



### ■ APPLICATION CASES

应用案例



## 5056 Aluminum Rod 铝棒

It has good processability and weldability, and excellent anodizing performance. It is often used in rivets, zippers, nails, office equipment, ship parts, wire clips, cameras, optical mechanical parts, etc.

加工性和焊接性好，阳极氧化性能优越，常用于铆钉，拉链，钉子，办公设备，船舶部件，导线线夹，相机，光学机械部件等。



■ GB/T 3191

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
	8	10	12	15	18	20	25	30	35	40	45	50	55	
5056-H112	60	65	70	75	80	85	90	95	100	110	120	130	140	2500
	150	160												3000

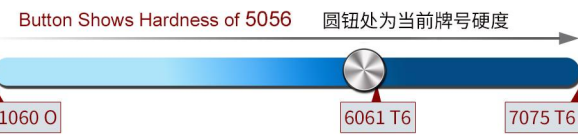
### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.0-0.3	0.0-0.4	0.0-0.1	0.05-0.2	4.5-5.6	0.05-0.2	0.0-0.1	-	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N / mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N / mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
5056 H112	294	225	12



### ■ APPLICATION CASES

应用案例



## 5083 Aluminum Rod 铝棒

5083 has a high magnesium content and is used in situations where high corrosion resistance, good weldability and medium strength are required. It is widely used in the fields of ships, vehicles, chemicals, food, machinery, etc.

5083镁含量高，用于需要高的抗腐蚀性、良好的可焊性和中等强度的场合，广泛使用于船舶、车辆、化工、食品、机械等领域。



■ GB/T 3191 ASTM B221 EN 755

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度														Size mm 尺寸
	10	12	15	16	18	20	22	25	28	30	32	35	38		
5083-H112	40	45	50	55	60	65	70	75	80	85	90	95	100	2500	
	105	110	120	130	140	150	160	170	180	190	200	210	220	3000	
	230	240	250	260	270	280	290	300	310	320	330	340	350	3500	
	360	370	380	390	400										4000

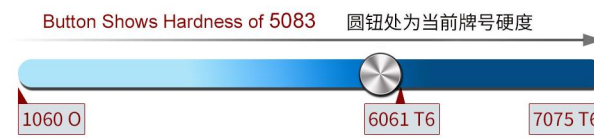
### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.0-0.4	0.0-0.4	0.0-0.1	0.4-1.0	4.0-4.9	0.05-0.25	0.0-0.25	0.0-0.15	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N / mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N / mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
5083 H112	295	145	12



### ■ APPLICATION CASES

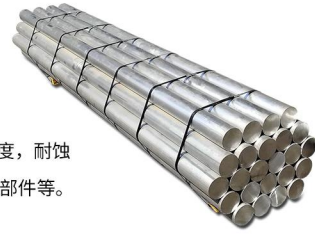
应用案例



## 5A05 Aluminum Rod 铝棒

5000 series Al-Mg alloy, with high magnesium content, medium strength and excellent corrosion resistance. Commonly used for welding structural parts, aircraft skin and bone parts, etc.

5000系列Al-Mg合金，镁含量高，中等强度，耐腐蚀性优越。常用于焊接结构件，飞机蒙皮骨部件等。



■ GB/T3880-2012 ASTM B209 EN485 AMS4016

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
5A05-H112	20	30	40	50	60	70	80	90	100	110	120	130	140	2000-4000
	150	160	170	180	190	200								

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.0-0.5	0.0-0.5	0.0-0.1	0.3-0.6	4.8-5.5	-	0.0-0.2	-	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N/mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
5A05 H112	305	165	16



### ■ APPLICATION CASES

应用案例



## 5A06 Aluminum Rod 铝棒

The magnesium content of 5A06 alloy is higher than that of 5083, and it has excellent corrosion resistance. It is often used in welding structures, cold die forging parts, welding and pulling container load-bearing parts, aircraft skin and bone parts, etc.

5A06合金镁的含量比5083更高，耐腐蚀性优越。常用于焊接结构，冷模锻零件，焊拉容器受力零件，飞机蒙皮骨部件等。



■ GB/T3880-2012 ASTM B209 EN485 AMS4016

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
5A06-H112	8	10	12	15	20	25	30	35	40	45	50	60	70	2000-4000
	80	90	100	110	120	130	140	150	160	170	180	190	200	
	210	220	230	240	250	260	270	280	290	300	310	320	330	
	340	350												

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.0-0.4	0.0-0.4	0.0-0.1	0.5-0.8	5.8-6.8	-	0.0-0.2	0.02-0.1	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N/mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
5A06 H112	305	165	16



### ■ APPLICATION CASES

应用案例



## 6061 Aluminum Rod 铝棒

6061 is a globally popular aluminum alloy with a very high cost-effectiveness and huge sales volume. It is commonly used in automatic machine parts, mobile phone card slots, mobile phone cases, molds, automobiles, precision machining, mold manufacturing, electronics and precision instruments, structural engineering, etc.

6061是全球广受欢迎的铝合金，性价比非常高，销售量巨大。常用于自动机器零件、手机卡槽、手机壳、模具、汽车、精密机械加工、模具制造、电子及精密仪器、结构工程等。



■ GB/T 3191 ASTM B221 EN 755 AMSQA200/8

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
6061-T6/T6511	5	6	8	10	12	14	15	16	18	20	22	25	26	2500
	28	30	32	35	36	38	40	42	45	46	48	50	52	
	55	58	60	65	70	75	80	85	90	95	100	105	110	
	115	120	125	130	135	140	145	150	155	160	165	170	175	3000
	180	185	190	195	200	205	210	215	220	225	230	240	250	
	260	270	280	290	300	310	320	330	340	350	360	370	380	4000
	390	400	410	420	430	440	450	460	470	480	490	500	510	
520	530	540	550	560	570	580	590	600						
6061 T652	200~600 Fouged Rod 大直径锻棒 (具体尺寸联系我们)												500-3000	

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.4-0.8	0.0-0.7	0.15-0.4	0.0-0.15	0.8-1.2	0.04-0.35	0.0-0.25	0.0-0.15	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N / mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N / mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
6061 T6	310	275	12



### ■ APPLICATION CASES

应用案例



## 6063 Aluminum Rod 铝棒

6063 aluminum alloy has good plasticity and excellent anodizing performance. It is commonly used in auto parts, mobile phone accessories radiators, auto wheels, molds, bus body structural parts, etc.

6063铝合金塑性好，阳极氧化性能优良。常用于汽车零部件，手机配件散热器，汽车轮毂，模具，客车车体结构件等。



■ GB/T 3191

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
6063-T6/T6511	5	6	7	8	10	12	13	15	16	18	20	22	25	2500
	28	30	32	35	40	45	50	55	60	65	70	75	80	
	85	65	70	75	80	85	90	95	100	110	120	130	140	3000
	150	160	170	180	190	200	220	250						

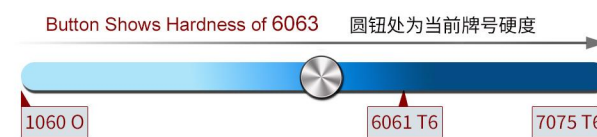
### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

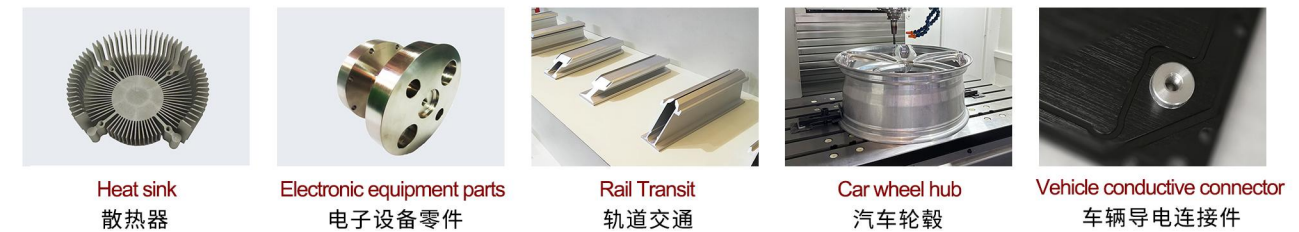
Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.2-0.6	0.0-0.35	0.0-0.1	0.0-0.1	0.45-0.9	0.0-0.1	0.0-0.1	0.0-0.1	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N / mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N / mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
6063 T5	240	215	12



### ■ APPLICATION CASES

应用案例





## 6082 Aluminum Rod 铝棒

6082 is similar to 6061, but stronger than 6061. It is widely used in Europe and is often used in building and bridge structures, automobile frames and suspension components, electromechanical equipment frames and panels, sports equipment, electrical housings, mold manufacturing, etc.

6082与6061相似，比6061强度更高，在欧洲使用量极大，常用于建筑和桥梁结构，汽车车架和悬挂部件，机电设备框架及面板，运动器具，电器外壳，模具制造等等。



■ GB/T 3191 EN 755

### ■ SIZES IN STOCK

### 现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
6082-T6/T6511	20	22	25	26	28	30	32	35	38	40	45	50	55	2000-4000
	60	65	70	72	75	80	82	85	90	95	100	105	110	
	115	120	125	130	135	140	145	150	155	160	165	170	175	
	180	185	190	195	200	210	220	230	240	250	260	270	280	
	290	300	310	320	330	340	350	360	370	380				

### ■ DATA (REFERENCE VALUE)

### 数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.7-1.3	0.0-0.5	0.0-0.1	0.4-1.0	0.6-1.2	0.0-0.25	0.0-0.2	0.0-0.1	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N / mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N / mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
6082 T6	330	290	9



### ■ APPLICATION CASES

### 应用案例



## 6101 Aluminum Rod 铝棒

6101 aluminum alloy is commonly used in busbars and wires, with a conductivity of 55% (IACS%). It is slightly lower than the conductivity of 1000 series, but has much higher strength. It is used in conductive situations that require strength.

6101铝合金常用于母线和电线等，导电率55% (IACS%)，它比1000系的导电率稍低，但强度高很多，应用于需要强度的导电场合。



■ GB/T 3191

### ■ SIZES IN STOCK

### 现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
6101-T6	10	15	20	25	30	35	40	50	60	70	80	90	100	2000-4000
	110	120												

### ■ DATA (REFERENCE VALUE)

### 数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.3-0.7	0.0-0.5	0.0-0.1	0.0-0.03	0.35-0.8	0.0-0.03	0.0-0.1	-	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N / mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N / mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
6101 T6	220	195	-



### ■ APPLICATION CASES

### 应用案例



## 7075 Aluminum Rod 铝棒

It is a world-renowned hard aluminum, widely used in aerospace, mold industry and high-end industrial manufacturing. In recent years, it has also been widely used in civilian products, such as 3C products, bicycle frames, rock climbing equipment, golf heads, ski poles, baseball rackets and tennis rackets, etc.

它是全球知名的硬铝，广泛用于航空航天，模具行业及高端工业制造。近年来在民用品上使用也非常多，比如3C产品，自行车车架，攀岩设备。高尔夫球头。滑雪杖。棒球拍和网球拍等。



■ GB/T 3191 ASTM B221 EN 755 AMSQQA200/11

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
7075-T6/T6511	8	9	10	12	15	16	18	20	25	30	35	40	45	2500
	50	52	55	58	60	65	70	75	80	85	90	95	100	
	105	110	115	120	125	130	135	140	145	150	155	160	165	
	170	175	180	185	190	195	200	205	210	215	220	225	230	3000
	240	250	255	260	270	280	290	300	310	320	330	340	350	
	360	370	380	390	400	410	420	430	440	450	460	470	480	
	490	500	510	520	530	540	550	560	570	580	590	600		4000
7075-T652	450	460	480	500	550	600	700	(Foring Rod 锻棒)					3000	

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others 其它
0.0-0.4	0.0-0.5	1.2-2.0	0.0-0.3	2.1-2.9	0.18-0.28	5.1-6.1	0.0-0.2	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N / mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N / mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
7075 T6	570	505	11



Button Shows Hardness of 7075 圆钮处为当前牌号硬度



### ■ APPLICATION CASES

应用案例



Aircraft base connector  
飞机底座连接件



Ski poles  
滑雪杖



Mould  
模具



Bicycle frame  
自行车车架



Telescope bracket  
望远镜支架

## 7A04 7A09 Aluminum Rod 铝棒

7000 series is Al-Zn-Mg-Cu alloy with high strength. It is mainly used in the aviation field such as aircraft skin, screws, and load-bearing components such as beam trusses, bulkheads, wing ribs, landing gear, etc.

7000系属Al-Zn-Mg-Cu合金，强度高，主要应用于航空领域如飞机蒙皮，螺钉，以及受力构件如大梁桁条，隔框，翼肋，起落架等。



■ GB/T 3191

### ■ SIZES IN STOCK

现货资源

Grade 材质	Thickness mm 厚度													Size mm 尺寸
7A04-T6	10	15	20	25	30	40	50	60	70	80	90	100	110	2000-4000
	120	130	140	150	160	170	180	190	200	210	220	230	240	
	250	260	270	280	290	300	310	320	330	340	350	360	370	
7A09-T6	10	15	20	25	30	40	50	60	70	80	90	100	110	2000-4000
	120	130	140	150	160	170	180	190	200	210	220	230	240	
	250	260	270	280	290	300	310	320	330	340	350			

### ■ DATA (REFERENCE VALUE)

数据 (参考值)

#### ▼ Chemical Composition (W%) 化学成分

Grade	Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Al 铝	Others
7A04	0.0-0.5	0.0-0.5	1.4-2.0	0.2-0.6	1.8-2.8	0.1-0.25	5.0-7.0	0.0-0.1	Rem. 余量	-
7A09	0.0-0.5	0.0-0.5	1.2-2.0	0.0-0.15	2.0-3.0	0.16-0.3	5.1-6.1	0.0-0.1	Rem. 余量	-

Mechanical Properties 力学性能	Tensile Strength Mpa (N / mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa (N / mm <sup>2</sup> ) 屈服强度	Elongation (%) 延伸率
7A04 T6	510	430	7
7A09 T6	510	430	4



Button Shows Hardness of 7A04 圆钮处为当前牌号硬度



### ■ APPLICATION CASES

应用案例



Screw  
螺杆



Aluminum Rivet  
铆钉

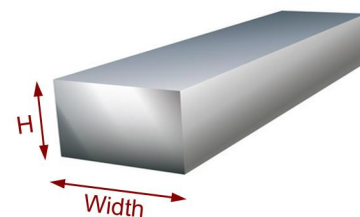


Aviation parts  
航空零部件

## Aluminum Bar - Flat/Square 铝排/方棒

The 6061 extruded aluminum bar has high strength, good processing performance, can quickly obtain the required size of the material, which reduces the cutting loss than plate cutting, and avoiding the deformation caused by cutting the long and narrow aluminum plate..

6061挤压铝排有数百种规格现货，它强度高，加工性能好，可以迅速获得所需要尺寸的材料，比铝板切割的尺寸减少了切割损耗，同时避免了切割细长条铝板通常会导致的变形。



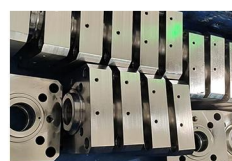
### ■ SIZES IN STOCK 6061T6 现货资源

H高	x Section Width 截面宽度	Length 长度: 2500-3000mm or Customized	6061T6
2	x 20 25 40 50		
3	x 20 25 30 40		
4	x 20 25 30 40 50		
5	x 5 10 15 20 25 30 35 40 50 50		
6	x 12 15 20 25 30 35 40 45 50 55 60 60 70 80 90 100 110 120 130 150 170		
8	x 8 10 13 15 20 25 30 35 40 45 50 50 55 60 65 70 80 90 100 110 120 130 140 150 170 200		
10	x 10 12 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 100 110 120 130 140 150 160 170 180 200 250		
12	x 12 15 20 25 25 30 40 45 50 55 60 65 70 75 80 85 90 100 110 120 130 140 150 160 170 180 200		
15	x 15 20 25 30 32 35 40 45 50 55 60 65 70 75 80 85 90 95 100 110 120 125 130 140 150 160 170 180 200		
16	x 16 20 25 32 40 45 50 55 60 65 70 75 80 85 90 95 100 110 120 130 140 150 160 180 200		
18	x 18 30 40 50 60 70 80 90 100 110 120 130		
20	x 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 120 130 140 150 160 180 200		
22	x 22 26 55 65 100		
25	x 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 105 110 120 130 140 150 160 180 185 200		
30	x 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100 110 120 130 140 150 160 170 180 200		
32	x 32 38 x 38		
35	x 35 40 45 50 55 60 65 70 75 80 85 90 95 100 110 120 125 130 140 150 160 170 180 200		
40	x 40 45 50 55 60 65 70 75 80 85 90 95 100 110 120 130 135 140 150 160 180 200		
45	x 45 50 55 60 65 70 75 80 85 90 95 100 110 120 130 140 150 160 200 200		
50	x 50 55 60 65 70 75 80 85 90 95 100 110 120 130 140 145 150 200		
55	x 55 60 65 70 75 80 85 90 95 100 110 120 135 150		
60	x 60 65 70 75 80 85 90 95 100 110 120 125 130 150 160 180		
65	x 65 70 75 80 85 90 100 110 120		
70	x 70 75 80 85 90 100 110 120 130		
75	x 75 80 85 90 95 120		
80	x 80 85 90 100 110 120 130 140 150		
>80	85 x 85 85 x 100 90 x 90 90 x 100 90 x 110 95 x 95 95 x 100 100 x 100 100 x 120 100 x 150 105 x 105 110 x 110		
>110	115 x 115 120 x 120 125 x 125 130 x 130 135 x 135 140 x 140 150 x 150 160 x 160 180 x 180 185 x 185 190 x 190 200 x 200		

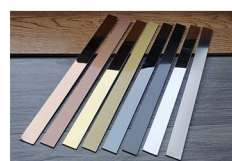
### ■ APPLICATION CASES 应用案例



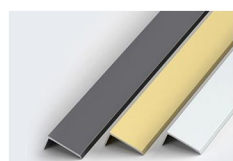
Fastenings  
连接件



mechanical part  
机械部件



Furniture trim strip  
家具装饰条



Capping strip  
L型压边条

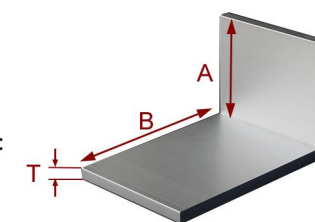


Hexagon bolt and nut  
六角螺栓螺母

## Aluminum Angle Bar 角铝

Aluminum angle bar belongs to a kind of aluminum profiles, which are long strips of aluminum with vertical angles on both sides. The function has three main aspects.  
1. Used as a wrapping edge. 2. Used as a ceiling part. 3. Used as a fixed accessory.

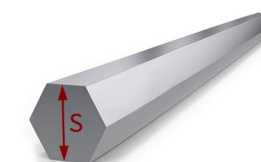
角铝属于铝型材的一种，是两边互相垂直成直角形的长条铝材。作用主要有三个方面：  
1、作为包边使用。2、作为吊顶使用。3、作为固定配件使用。



### ■ SIZES IN STOCK 现货资源

A X B X T (mm)		Length 长度 3000-6020 mm				6061T6 / 6063T5	
10x10x1	10x10x2	10x10x3	12x12x1	12x12x2	12x12x3	15x15x1	15x15x2
15x15x3	20x20x1	20x20x1.5	20x20x2	20x20x3	20x20x4	20x20x5	20x30x1.5
20x30x3	20x40x3	20x40x4	25x25x1	25x25x2	25x25x3	25x25x4	25x40x3
25x45x3	30x30x2	30x30x3	30x30x4	30x30x5	30x40x2	30x40x3	30x60x3
38x38x2	40x40x2	40x40x3	40x40x4	40x40x5	40x60x3	50x50x2	50x50x3
50x50x4	50x50x5	50x50x5	50x50x10	50x50x15	50x70x5	50x100x5	60x60x3
80x80x10	90x90x15	100x100x8	100x100x10	100x100x10	110x50x12	120x120x11	120x120x12
120x120x12	150x100x10	150x150x15	150x150x15	155x90x9.5	180x180x20	180x180x20	200x100x8
200x100x10	200x100x15						

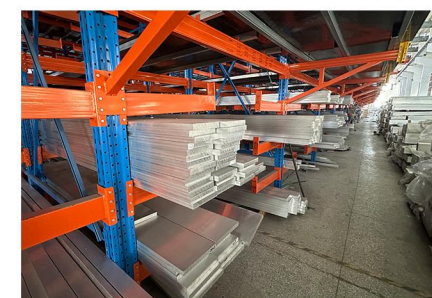
## Aluminum Hexagonal Bar 六角棒



### ■ SIZES IN STOCK 现货资源

S (mm) - Width across flats 对边		Length 长度 3000 mm				6061T6	
S8	S10	S12	S13	S14	S16	S17	S19
S20	S22	S24	S25	S26	S27	S30	S32
S34	S36	S38	S40	S42	S46	S50	S52
S60	S65	S70					

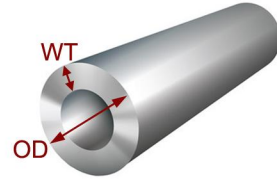
- Aluminum bars can be cut to size and sold. 铝棒支持切割销售
- Large stock and fast delivery. 大量现货，发货迅速
- Other grades can be customized, >500kg 其他牌号可接受定制





## Aluminum Seamless Pipe 无缝管

Length 520-6020mm, Can be cut to size and sold 支持零切

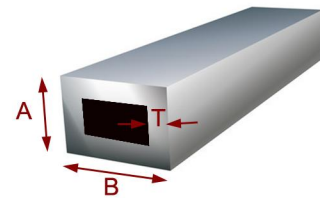


■ SIZES IN STOCK 现货资源

7075 T6												
OD x WT (mm)		外径 x 壁厚										
30x5	35x5	35x10	40x5	40x10	45x3	45x5	45x10	50x3	50x5	50x10	50x15	55x3
55x5	55x10	55x15	60x3	60x5	60x10	60x15	65x3	65x5	65x10	65x15	70x3	70x5
70x10	70x15	70x20	75x3	75x5	75x10	75x15	75x20	80x5	80x10	80x15	80x20	85x10
85x15	85x20	90x10	90x15	90x20	95x10	95x15	100x10	100x15	100x20	100x25	100x30	105x10
105x15	105x20	110x10	110x15	110x20	110x25	110x30	115x10	115x15	115x20	120x10	120x15	120x20
120x25	120x30	130x10	130x15	130x20	130x25	130x30	140x10	140x15	140x20	140x25	140x30	140x40
150x10	150x15	150x20	150x25	150x30	150x40	150x50	160x10	160x15	160x20	160x30	160x40	160x50
170x10	170x15	170x20	170x30	170x40	170x50	180x15	180x20	180x30	180x40	180x50	190x20	190x30
190x40	190x50	200x20	200x30	200x40	200x50	210x20	210x30	210x40	210x50	220x20	220x30	220x40
220x50	230x20	230x30	230x40	230x50	240x20	240x30	240x40	240x50	250x20	250x30	250x40	250x50
260x20	260x30	260x40	260x50	260x55	270x20	270x30	270x35	270x40	270x50	280x20	280x30	280x40
280x50	290x20	290x30	290x40	290x50	300x30	300x40	300x50	310x30	310x40	310x50	320x30	320x40
320x50	330x30	330x40	330x50	340x30	340x40	340x50	350x30	350x40	350x50	360x30	360x40	360x50
370x40	370x50	380x30	380x40	380x50	390x30	390x40	390x50	400x30	400x40	400x50		

## Aluminum Square/Rectangle tube 方管

Length 3000-6020mm, Can be cut to size and sold 支持零切



■ SIZES IN STOCK 现货资源

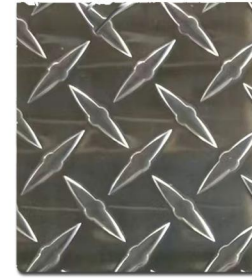
6063T5 / 6061T6							
A x B x T (mm)		边 x 边 x 壁厚					
10x10x1 ★	15x15x1 ★	15x15x2 ★	15x30x1 ★	20x20x1 ★	20x20x2 ★	20x20x2	20x20x3 ★
20x30x1 ★	20x30x2 ★	20x30x2	20x30x3 ★	20x40x2 ★	20x40x2	20x40x3 ★	20x40x3
20x50x2	25x25x1 ★	25x25x2 ★	25x25x2	25x25x3 ★	25x50x2 ★	30x30x2 ★	30x30x2
30x30x3 ★	30x30x3	30x40x2 ★	30x40x3 ★	30x50x2 ★	30x50x3 ★	30x50x4.5 ★	30x60x2 ★
30x60x3 ★	40x40x2 ★	40x40x2	40x40x3 ★	40x40x4 ★	40x40x5 ★	40x60x2 ★	40x60x3 ★
40x60x4 ★	40x80x2 ★	40x80x3 ★	40x80x3	40x80x4 ★	40x80x4	50x50x2 ★	50x50x2.5 ★
50x50x3 ★	50x50x4 ★	50x50x5 ★	50x50x6	50x70x5 ★	50x80x5	50x100x1 ★	50x100x2 ★
50x100x3 ★	50x100x5 ★	60x60x2 ★	60x60x3 ★	60x60x4	60x60x5	60x60x6 ★	60x80x3 ★
60x80x5 ★	60x120x5 ★	70x70x3 ★	70x70x4 ★	70x70x5 ★	80x80x3 ★	80x80x4 ★	80x80x5
80x80x5 ★	80x80x8 ★	80x80x10 ★	80x100x5 ★	80x100x10	90x90x3 ★	90x90x4 ★	90x90x5 ★
90x90x9 ★	100x100x3 ★	100x100x5 ★	100x100x5 ★	100x100x8	100x100x10	120x120x5 ★	120x120x9
150x100x7 ★	150x100x10	150x150x10	150x150x12	182x100x10	200x120x12	200x200x3 ★	200x200x10
200x200x15	200x200x20	250x250x10	250x250x12	300x50x3 ★			

★=6063 Others=6061 标注★号的是6063, 其它6061

## Aluminum Checker Plate 花纹铝板



5 Bars 五筋



Diamond 菱形



Bean 豌豆

Grade 牌号
1060, 1100, 3003, 5052, 5754
Thickness 板厚度
1mm~6mm
Size 尺寸
1220x2440, 1500x3000 mm



Aluminum checker plates are widely used in carriages, floors, walls, stairs, etc., with protection and decoration.

花纹铝板广泛应用于车厢、地板、墙壁、楼梯等, 兼顾保护与装饰。



Good looking  
好看



Durable  
耐用



Anti-slip  
防滑



Easy-clean  
易清洁

## Aluminum Sublimation Blanks 热转印铝板

New way of printing around the world

风靡全球的印刷新风尚

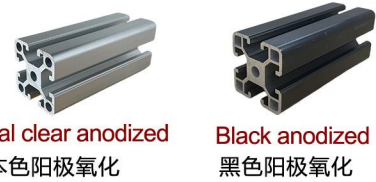


Pure White	Glossy Silver	Glossy Golden
Pearl White	Pearl Silver	Pearl Golden
Brushed Copper	Brushed Silver	Brushed Golden
Mirror Silver	Mirror Golden	

Thickness 厚度	Available Colors 颜色 size: 600*1200mm 尺寸
0.22 mm	Glossy Silver/Golden
0.45 mm	Glossy White/Silver/Golden, Pearl White/Silver/Golden, Brushed Silver/Golden/Copper, Mirror Golden/Silver
0.65 mm	Glossy White/Silver, Pearl White/Silver/Golden
1.0 mm	Glossy White/Silver/Golden, Pearl Silver/Golden

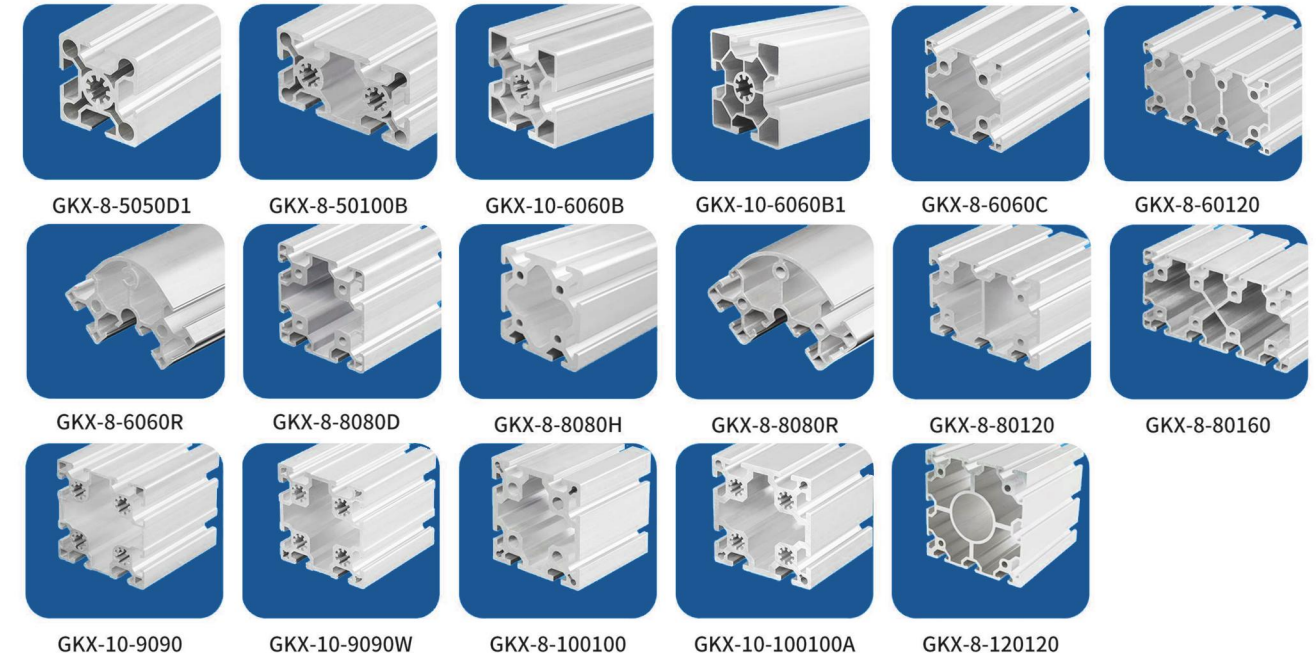
# Assembly Line Aluminum Profile

## 工业流水线铝型材



### ALUMINUM PROFILE (EUROPEAN STANDARD)

### 工业流水线铝型材 (欧标)



### ALUMINUM PROFILE (CHINA STANDARD)

### 工业流水线铝型材 (国标)



Connectors and assemblies are available  
同时提供各种连接件和装配件

### APPLICATION CASES

### 应用案例



## TA2 GR2 Pure Titanium Plate / Rod 纯钛板/棒

TA2 Industrial Pure Titanium (unalloyed) is of medium strength, with a typical yield strength of 351 MPa. TA2 Industrial Pure Titanium has excellent corrosion resistance, good ductility and formability for cold forming, as well as good weldability. Its high strength and formability are achieved by the presence of iron and oxygen. TA2 Industrially Pure Titanium is a versatile metallic material, popular in applications where weight reduction is required without compromising overall strength.

TA2 工业纯钛（非合金）强度中等，典型的屈服强度为351Mpa。TA2 工业纯钛具有优异的耐腐蚀性，良好的延展性和成形性，可进行冷成型，同时也具备良好的可焊性。铁和氧的存在实现了其高强度和成形性。TA2 工业纯钛是一种多用途的金属材料，在需要减重而不降低整体强度的应用中很受欢迎。

- Excellent resistance in oxidising atmospheres  
优异的抗氧化性
- Excellent weldability  
优异的焊接性
- Good formability  
良好的成形性

### ■ SIZES IN STOCK

### 现货资源



Thickness 厚度
φ0.5-150mm
Production Process 工艺
Rolling 轧制 Foging available with very thick 大件可做锻件



Diameter 直径
φ0.8-250mm
Production Process 工艺
Extrusion 挤压 Foging available with large dia. 大直径可做锻件

■ 库存及交期，敬请咨询

### ■ DATA (REFERENCE VALUE)

### 数据（参考值）

#### ▼ Chemical Composition (W%) 化学成分

■ Be equl to Grade 2

Al 铝	V 钒	Fe 铁	C 碳	N 氮	H 氢	O 氧	Ti 钛	Others 其它
-	-	0.0-0.3	0.0-0.1	0.0-0.05	0.0-0.015	0.0-0.25	Rem. 余量	-

### ■ APPLICATION CASES

### 应用案例



▲ Bone nail  
骨钉

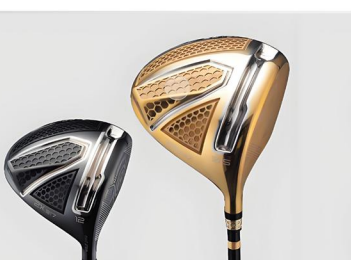


◀ Ship propellers  
船舶螺旋桨

golf club  
高尔夫球杆 ▼



Condensers  
冷凝器 ▶



## TC4 Ti-6Al-4V (GR5) Titanium 合金钛板/棒

TC4 (Ti-6Al-4V) is one of the most widely used high strength titanium alloys. TC4 titanium alloys combine excellent corrosion resistance, good mechanical strength and low density (about 4.5 kg/dm<sup>3</sup>). TC4 titanium alloy is a heat-treatable titanium alloy product, which can be processed to 25mm(solid solution heat treatment + aging), and the maximum working temperature can reach 400°C. The material has good formability and has excellent specific strength, so it is widely used in aerospace and motorsports. About 50% of the global titanium alloy procurement is TC4 (Ti-6Al-4V).

TC4 (Ti-6Al-4V)是目前应用最广泛的高强度钛合金之一。TC4钛合金结合了优异的耐腐蚀性、良好的机械强度和低密度（约4.5 kg/dm<sup>3</sup>）。TC4钛合金是一种可热处理钛合金产品，可加工至25mm(固溶热处理+时效)，最高工作温度可达400°C。该材料具有良好的成型性，具有优异的比强度，因此在航空航天和赛车运动中广泛应用。全球钛合金采购量的50%左右是TC4 (Ti-6Al-4V)。

- Excellent corrosion resistance  
优异的耐腐蚀性
- Excellent fatigue strength  
优异的耐疲劳性
- Good machinability  
加工性能良好
- Good strength to weight ratio  
强度和重量比好

### ■ SIZES IN STOCK

### 现货资源



Thickness 厚度
φ0.5-180mm
Production Process 工艺
Rolling 轧制 Foging available with very thick 大件可做锻件



Diameter 直径
φ0.8-300mm
Production Process 工艺
Extrusion 挤压 Foging available with large dia. 大直径可做锻件

■ Please contact us for inventory and lead time

### ■ DATA (REFERENCE VALUE)

### 数据（参考值）

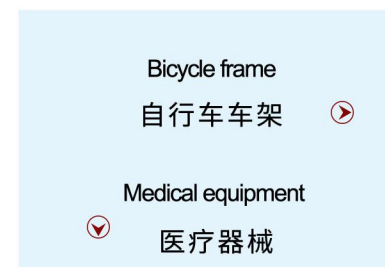
#### ▼ Chemical Composition (W%) 化学成分

■ Be equl to Grade 5

Al 铝	V 钒	Fe 铁	C 碳	N 氮	H 氢	O 氧	Ti 钛	Others 其它
5.5-6.75	3.5-4.5	0.0-0.3	0.0-0.08	0.0-0.05	0.0-0.015	0.0-0.2	Rem. 余量	-

### ■ APPLICATION CASES

### 应用案例



Bicycle frame  
自行车车架 ▶

Medical equipment  
医疗器械 ▼



Aircraft engine fans  
飞机发动机风扇 ▲

Valves  
阀门 ◀



## Ti Titanium Materials & Processed Parts



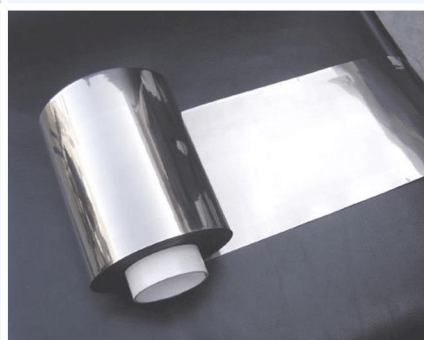
Titanium tube  
钛管



Titanium wire  
钛丝



Titanium foil  
钛箔



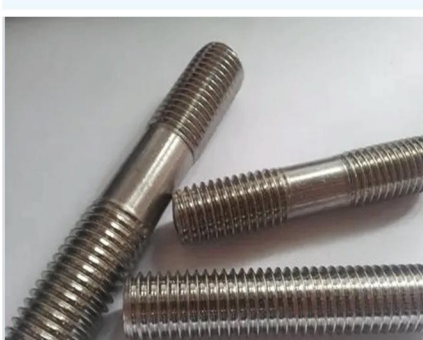
Titanium screw  
钛螺钉



Titanium bolts  
钛螺栓



Titanium gaskets  
钛垫片

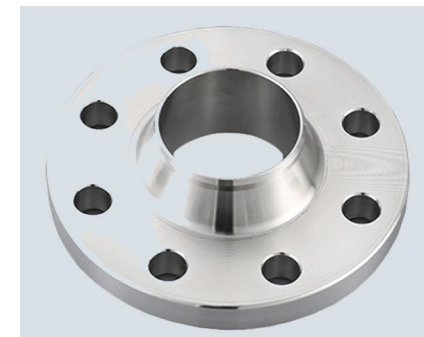


Titanium stud  
钛螺柱



Titanium nut  
钛螺母

## Ti 钛合金原料及加工件



Titanium flange  
钛法兰



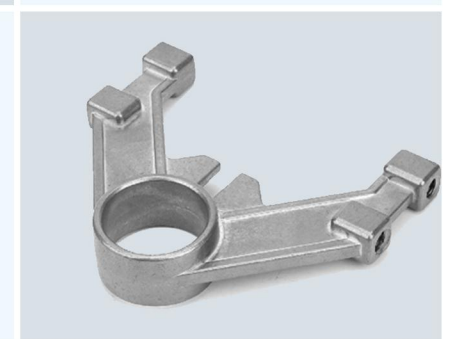
Titanium tees  
钛三通



Titanium bends  
钛弯管



Titanium shaped parts  
钛异形件



Titanium cylinder  
钛圆筒



titanium part  
钛零件



Titanium head  
钛封头



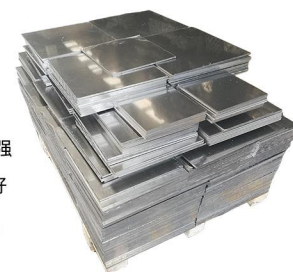
Titanium impeller  
钛叶轮



# Mg Magnesium Plate 镁板

The density of magnesium alloy is small and is the lightest metal structure material, which can be used as high-strength materials. Magnesium alloy elasticity is large, has good anti-shock resistance, and has good shock resistance and noise reduction performance. In addition, there are high thermal conductivity and electrical conductivity, non-magnetic, good shielding and non-toxic characteristics.

镁合金密度小,是最轻的金属结构材料,可用作高强度材料。镁合金弹性模量大,消震性好,具有良好的抗震减噪性能。另外还有高的导热和导电性能、无磁性、屏蔽性好和无毒的特点。



GB/T 5154 GB/T 5153

## SIZES IN STOCK

现货资源

Plate Type 板型	Thickness 厚度	Production Process 制作工艺	Plate Width 板宽度	Remark 备注
Thin 薄板	0.5-5mm	Rolling 轧制	≤1500mm	Selling whole size or cut to size with quite a quantity 整板或切割-需有量
Medium-thick plate 中厚	5-20mm	Extrusion 挤压	≤400mm	Cut to size with small quantity is available 可零切
Thick Plate 厚板	>20mm	Extrusion 挤压	≤400mm	Thickness ≤80mm 厚度80内
		Rolling 轧制		Cut to size or customize according to customer needs, contact us specifically. 根据客户需求切割或定制, 具体联系我们
		Casting 铸造		
		Forging 锻造		

## DATA (REFERENCE VALUE)

数据 (参考值)

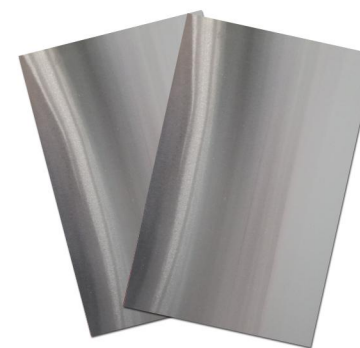
### Chemical Composition (W%) 化学成分

Grade	Si 硅	Fe 铁	Cu 铜	Mn 锰	Al 铝	Ni 镍	Zn 锌	Zr 锆	Mg 镁	Others
AZ31B	0.0-0.8	0-0.003	0-0.01	0.2-1.0	2.5-2.5	0-0.001	0.6-1.4	-	Rem.余量	<0.3
AZ91D	0.0-0.8	0-0.004	0-0.02	0.17-0.4	8.5-9.5	0-0.001	0.45-0.9	-	Rem.余量	-
ZK61M	0.0-0.5	0-0.05	0-0.05	0.0-0.10	0-0.05	0-0.005	5.0-6.0		Rem.余量	<0.3

Grade 牌号	Temper 状态	Thickness 厚度范围/mm	Tensile Strength 抗拉强度(Rm)/MPa	Yield Strength 屈服强度 (Rp0.2)/MPa	Elongation 延伸率 /%	备注
AZ31B	H112	0.4~3mm	225	150	12	薄板
		8~12.5 mm	230	140	10	厚板
		>12.5~20 mm	230	140	8	
		>20~32 mm	230	140	8	
ZK61M	T5	>32~70 mm	230	130	8	厚板
		8~12.5 mm	280	195	5	
		>12.5~20 mm	275	190	6	
		>20~32 mm	270	180	6	
		>32~70 mm	265	170	6	

## THE USE OF MAGNESIUM ALLOY PLATE

镁合金板的用途



### Thin Sheet 薄板

3C products, its advantages in the following aspects: light weight, high rigidity, good vibration reduction, good magnetic shielding, excellent heat dissipation,

3C产品, 其优越性表现在以下几个方面: 轻量化、刚性高、减振好、磁屏蔽性好、散热性优良、可回收利用。

### Middle-Thick Plate 中厚板

There are two kinds of engraving plate and etching plate commonly used, which make use of the characteristics of magnesium plate fast heat conduction, non-toxic and harmless, and easy to recycle. Building tools. Mainly the use of magnesium plate specific gravity is small, weight reduction

常用的有雕刻板和蚀刻板两种, 利用了镁板导热快、无毒无害、易回收的特性。建筑工具。主要是利用了镁板比重小, 减重的特性。

### Very Thick Plate 厚板

Mainly used for aerospace and military customers. recyclable.

主要用于航空航天等军工领域。

## APPLICATION CASES

应用案例



Car wheel  
汽车轮毂



Computer shell  
电脑壳



Bow and arrow handle  
弓箭把手



fender  
挡泥板



Battery shell  
电池外壳



Luggage rack  
行李架

## Mg Magnesium Rod/Other 镁棒及其他

### MAGNESIUM RODS IN STOCK 镁棒现货库存



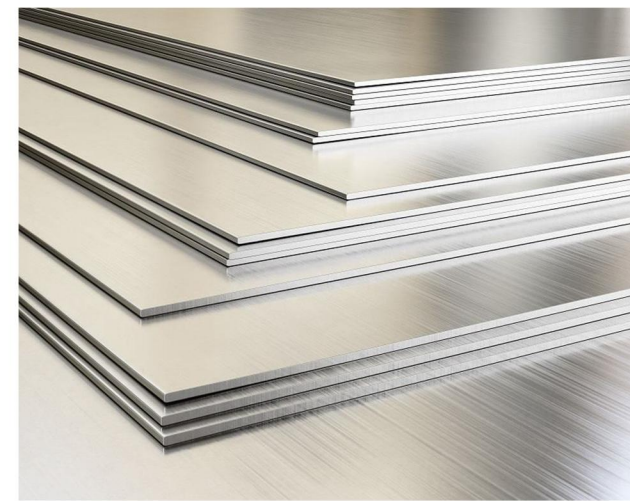
Grade 牌号	AZ31B AZ91D
Diameter 直径	6-400mm ,Contact us 具体联系我们
Length 长度	1000-3000mm, Can cut to size 支持切割
Production Process 生产工艺	Extrusion (Mostly) 挤压为主,可定制铸棒和锻棒 Customizable casting and forging rods



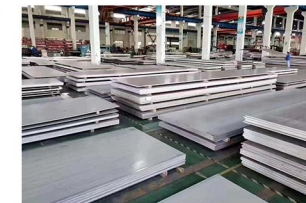
### OTHER PRODUCTS OF MAGNESIUM 镁的其他产品

	Anodic Sacrifice 牺牲阳极		Columnaris 转轴座
	Ventilator Housings 呼吸机壳体		Electrical Cooling 电器散热 Thin-walled 薄壁圆管
	Water Purifier 净水器		Electrical Housings 电器外壳
	Rear Tailgate Pedal 后尾翼踏板		

## SS Stainless Steel 不锈钢



316 Stainless Steel Plate  
316不锈钢板



304 Stainless Steel Plate  
304不锈钢板



Molybdenum Pellets  
毛圆坯棒



Molybdenum Target  
光圆棒



Stainless Steel Seamless Pipe  
不锈钢无缝管



Tantalum Wire  
钨丝



Tantalum Circle  
钨圆



Hafnium Target  
铪圆靶



Hafnium Foil  
铪箔



Coil Tube  
盘管



Flange  
法兰

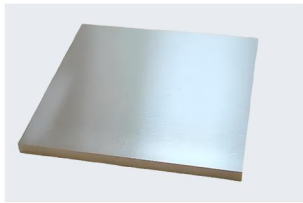


Pipe Fitting  
管配件

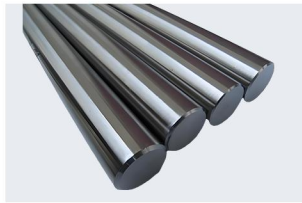


304 Stainless Steel Coil  
不锈钢卷

## Tantalum 钽



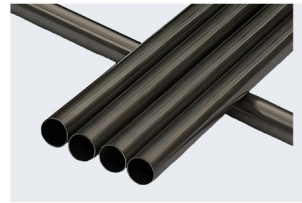
Tantalum Plate  
钽板



Tantalum Rod  
钽棒



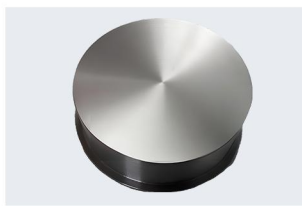
Tantalum Foil  
钽箔



Tantalum Tube  
钽管



Tantalum Particle  
钽颗粒



Tantalum Round Target  
钽圆靶

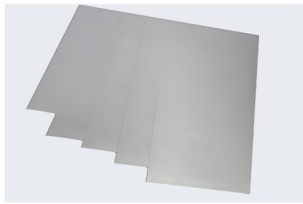


Tantalum Protection Tube  
钽保护管



Tantalum Crucible  
钽坩埚

## Niobium 铌



Niobium Plate  
铌板



Niobium Bar  
铌棒



Niobium Particle  
铌颗粒



Niobium Wire  
铌丝

## Zirconium 锆



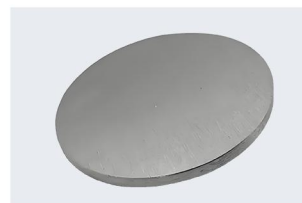
Zirconium Wire  
锆丝



Zirconium Rod  
锆棒

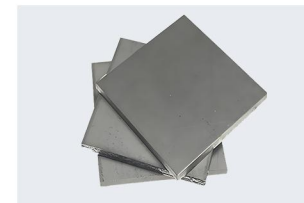


Zirconium Tube  
锆管



Zirconium Target  
锆圆靶

## Molybdenum 钼



Molybdenum Plate  
钼板



Molybdenum Tube  
钼管



Molybdenum Pellets  
钼颗粒

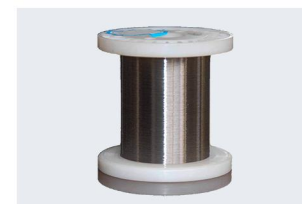


Molybdenum Target  
钼圆靶

## Nickel 镍



Nickel Strip  
镍带



Nickel Wire  
镍丝



Nickel Rod  
镍棒



Nickel Target  
镍圆靶

## Tungsten 钨



Tungsten Rod  
钨棒



Tungsten Crucible  
钨坩埚



Tantalum Wire  
钨丝



Tantalum Circle  
钨圆

## Hafnium 铪



Hafnium Pellets  
铪颗粒



Hafnium Rod  
铪棒



Hafnium Target  
铪圆靶


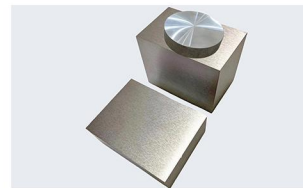



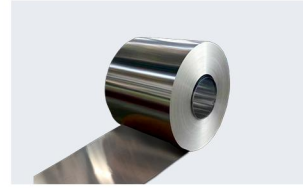
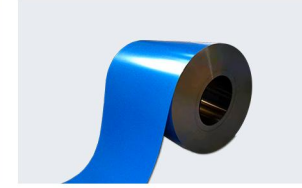
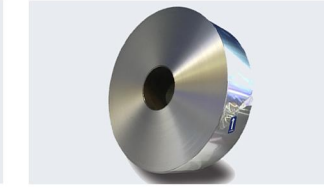
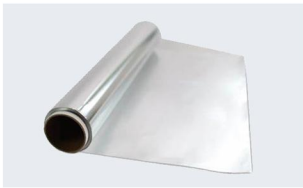





Hafnium Foil  
铪箔

■ Please contact us for more informations

■ 请联系我们获得详细资讯

■ CUSTOMIZED SERVICES 定制服务

			
Al Forge Pipe/Ring 锻管锻环	Al Forge Cake/Block 锻饼锻块	Aluminum Disc 铝圆片	Aluminum Wide Rod 铝线
			
Aluminum lacquer line 铝漆包线	Aluminum Coil 铝卷	Coated /Anodized Coil 彩卷/氧化卷	Aluminum Strip 铝分条
			
Aluminum Foil 铝箔	Anodized Plate 氧化铝板	Aluminum Profile 定制型材	High purity aluminum 高纯度铝材



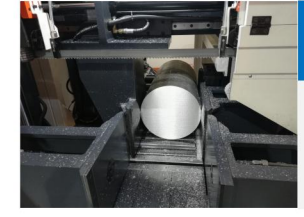











■ Any need for aluminum, please contact us  
关于铝的任何定制需求都可以联系我们

■ TESTING SERVICES 检测服务

			
Surface roughness test 表面粗糙度测试	Ultrasonic testing 超声波探伤	Size inspection 尺寸检测	Hardness Test 测硬度
			
Metallographic examination 金相检测	Tensile strength test 抗拉强度测试	Flatness test 平整度检测	Three coordinate detection 三坐标检测

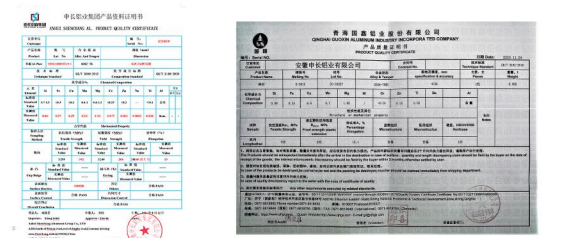
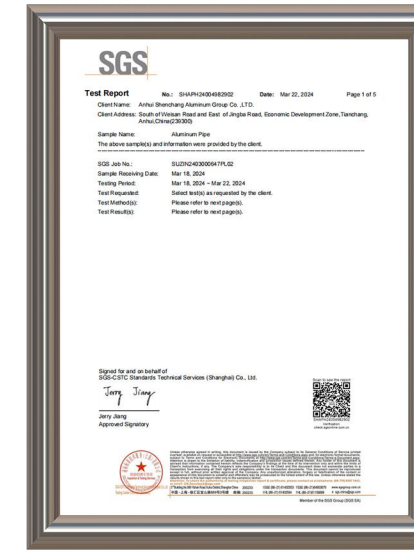
■ The third party testing is acceptable (need to pay)  
可接受第三方机构的检测 (需付费)

■ PROCESSING SERVICES 加工服务力展示

	<b>Sheet Shearing</b> 剪板 For 1-6mm thin aluminum sheet Cutting tolerance: 0-1mm 适合1-6mm薄板 切割公差0-0.5mm		<b>Profile Saw</b> 型材锯 For profiles, hollow things, or small rods 适合型材和小棒 切割公差0-0.3mm
	<b>Automatic Band Saw</b> 自动数控带锯 Aluminum rod, plate with small width Cutting tolerance: 0-3mm 铝棒及宽度不大的铝板 切割公差0-3mm		<b>Automatic Circular Saw</b> 自动数控圆盘锯 Wide plate with thickness ≤ 150mm Cutting tolerance 0-2mm 厚度小于150mm宽板 切割公差0-1.5mm
	<b>Automatic Vertical Saw</b> 自动数控立锯 Al Plate with thickness >150mm Cutting tolerance 0-3mm 厚大于150mm铝板 切割公差0-3mm		<b>Lasar Cutting</b> 激光切割 Cut any metal, any shape Thickness ≤20mm 切割任意金属任意图形 厚度≤20mm
	<b>Waterjet Cutting</b> 水切割 Cut any metal, any shape Thickness ≤200mm 切割任意金属任意图形 厚度≤200mm		<b>Aluminum Plate Levelling</b> 矫平 Make a better flatness by leveling, reduce surface machining works. 通过矫平获得更好的平整度,减少后期表面加工量
	<b>Milling Surface</b> 铣面 Better tolerances and flatness by milling the surface, reducing the amount of late processing. 通过铣面获得更好的公差 和平度,减少后期加工量		<b>Surface Brushed Treatment</b> 表面拉丝 Get a Good Looking surface with brushed effects 通过拉丝机获得很好的表面拉丝 效果
	<b>Punching</b> 冲孔 There are different patterns and designs, mainly used for plate decoration 有不同的图案和设计,主要用于 铝板装饰		<b>Bending</b> 折弯 To use of a lower strength sheet can be bending effects 使用强度较低的板材,可以获得 各种折弯后的效果
	<b>CNC processing</b> 机加工 CNC machining 3D drawings is supplied by customers. 为有需求的客户进行CNC加工, 客户来图加工		<b>Anodizing</b> 阳极氧化 Anodizing, coloring anodizing, hard anodizing, sandblasting, etc. 阳极氧化、着色、硬质阳极氧化、 喷砂等

TEST AND CERTIFICATE 检测和证书

- ✓ AS9102B Aerospace Certificate  
AS9102B 航空航天认证
- ✓ GJB Certificate  
GJB 认证
- ✓ Intertek verified certificate  
Intertek 第三方企业认证
- ✓ SGS Test  
SGS检测认证
- ✓ ROHS Test  
ROHS检测认证
- ✓ CCS certificate  
中国船级社认证
- ✓ Other classification societies available  
such as ABS, DNV, BV, etc. (Paid)  
其他船级社可付费认证如ABS, DNV, BV等
- ✓ Meterial Test certificate  
原厂材质证明
- ✓ Certificate of Origin  
原产地证书



CCS and other classification societies available (Paid)  
中国船级社和其它主流船级社认证 (需付费)



Certificate of Origin

## Chemical composition of aluminum

### 铝的化学成分表 (W%)

Grade 牌号	Si 硅	Fe 铁	Cu 铜	Mn 锰	Mg 镁	Cr 铬	Zn 锌	Ti 钛	Other		Al Rem. 余量	
									Each 单个	Total 合计		
1050	0.25	0.4	0.05	0.05	0.05	/	0.05	/	/	0.03	/	Rem.
1060	0.25	0.35	0.05	0.03	0.03	/	0.05	0.03	/	0.03	/	Rem.
1100	Si+Fe≤0.95		0.05-0.2	0.05	/	/	0.1	/	/	0.05	0.15	Rem.
2011	0.40	0.70	5.0-6.0	/	/	/	0.30	/	Bi0.2-0.6 Pb0.2-0.6	0.05	0.15	Rem.
2014	0.5-1.2	0.70	3.9-5.0	0.4-1.2	0.2-0.8	0.10	0.25	0.15	/	0.05	0.15	Rem.
2017	0.2-0.8	0.70	3.5-4.5	0.4-1.0	0.4-0.8	0.10	0.25	0.15	/	0.05	0.15	Rem.
2024	0.50	0.5	3.8-4.9	0.3-0.9	1.2-1.8	0.1	0.25	0.15	/	0.05	0.15	Rem.
2A12	0.5	0.5	3.8-4.9	0.3-0.9	1.2-1.8	/	0.30	0.15	Ni+Fe:0.5	0.05	0.1	Rem.
2A11	0.7	0.7	3.8-4.9	0.4-0.8	0.4-0.8	/	0.30	0.15	Ni+Fe:0.7	0.05	0.1	Rem.
2A14	0.6-1.2	0.7	3.9-4.8	0.4-1.0	0.4-0.8	/	0.30	0.15	Ni:0.1	0.05	0.1	Rem.
2A50	0.7-1.2	0.7	1.8-2.6	0.4-0.8	0.4-0.8	/	0.30	0.15	Ni+Fe:0.7	0.05	0.1	Rem.
2A70	0.35	0.9-1.5	1.9-2.5	0.2	1.4-1.8	/	0.30	0.02-0.1	Ni:0.9-1.5	0.05	0.1	Rem.
3003	0.6	0.7	0.05-0.2	1.0-1.5	/	/	0.1	/	/	0.05	0.15	Rem.
3004	0.3	0.7	0.25	1.0-1.5	0.8-1.3	/	0.25	/	/	0.05	0.15	Rem.
3A21	0.6	0.7	0.2	1.0-1.6	0.05	/	0.15	0.1-0.2	/	0.05	0.1	Rem.
4032	11.0-13.0	1	0.5-1.3	/	0.8-1.3	0.1	0.25	/	Ni:0.5-1.3	0.05	0.15	Rem.
5005	0.3	0.7	0.2	0.2	0.5-1.1	0.1	0.25	/	/	0.05	0.15	Rem.
5052	0.25	0.4	0.1	0.1	2.2-2.8	0.15-0.35	0.1	/	/	0.05	0.15	Rem.
5056	0.3	0.4	0.1	0.05-0.2	4.5-5.6	0.05-0.25	0.1	/	/	0.05	0.15	Rem.
5083	0.4	0.4	0.1	0.4-1.0	4.0-4.9	0.05-0.25	0.25	0.15	/	0.05	0.15	Rem.
5754	0.4	0.4	0.1	0.5	2.6-3.6	0.3	0.25	0.15	/	0.05	0.15	Rem.
5A05	0.5	0.5	0.1	0.3-0.6	4.8-5.5	/	0.2	/	/	0.05	0.1	Rem.
5A06	0.4	0.4	0.1	0.5-0.8	5.8-6.8	/	0.2	0.02-0.1	/	0.05	0.1	Rem.
6016	1.0-1.5	0.5	0.2	0.2	0.25-0.6	0.1	0.2	0.15	/	0.05	0.15	Rem.
6061	0.4-0.8	0.7	0.15-0.4	0.15	0.8-1.2	0.04-0.35	0.25	0.15	/	0.05	0.15	Rem.
6063	0.2-0.6	0.35	0.1	0.1	/	0.1	0.1	0.1	/	0.05	0.15	Rem.
6082	0.7-1.3	0.5	0.1	0.4-1.0	0.6-1.2	0.25	0.2	0.1	/	0.05	0.15	Rem.
6101	0.3-0.7	0.5	0.1	0.03	0.35-0.8	0.03	0.1	/	/	0.03	0.1	Rem.
7050	0.12	0.15	2.0-2.6	0.10	1.9-2.6	0.04	5.7-6.7	0.06	Zr:0.08-0.15	0.05	0.15	Rem.
7075	0.4	0.5	1.2-2.0	0.3	2.1-2.9	0.18-0.28	5.1-6.1	0.20	/	0.05	0.15	Rem.
7A04	0.5	0.5	1.4-2.0	0.2-0.6	1.8-2.8	0.1-0.25	5.0-7.0	0.1	/	0.05	0.1	Rem.
7A09	0.5	0.5	1.2-2.0	0.15	2.0-3.0	0.16-0.3	5.1-6.1	0.1	/	0.05	0.1	Rem.

■ As per ASTM B209 & GB/T3190-2020

## Mechanical properties of aluminum alloy

### 铝合金力学性能表

Alloy 合金		Tensile Strength Mpa(N/mm <sup>2</sup> ) 抗拉强度	Yield Strength Mpa(N/mm <sup>2</sup> ) 屈服强度	Elongation (%) Plate Rod 板 棒		Brinell Hardness HB 布氏硬度	Breaking strength Mpa(N/mm <sup>2</sup> ) 折断强度	Fatigue strength Mpa(N/mm <sup>2</sup> ) 疲劳强度
Grade 牌号	Temper 状态							
1060	O	70	30	43	—	19	50	20
1060	H14	100	90	12	—	26	60	35
1070	O	68	29	—	18	18	—	—
1100	H14	125	115	9	18	32	75	50
1100	O	90	35	35	42	23	60	35
2011	T3	380	295	—	13	95	220	125
2011	T8	405	31	—	10	100	240	125
2014	T4,T451	425	290	—	18	105	260	140
2014	T6,T651	485	415	—	11	135	290	125
2017	T4	425	275	—	20	105	260	125
2024	T4	470	325	20	17	120	285	140
2024	T3	485	345	18	—	120	285	140
2219	T81,T851	455	350	10	—	—	—	105
2618	T61	440	370	—	10	115	260	125
2A12	T4	470	325	20	17	120	285	140
2A50	T4	355	195	15	12	100	255	120
3003	O	110	40	30	37	28	75	50
3004	O	180	70	20	22	45	110	95
3A21	O	160	85	21	22	40	100	90
5052	H34	260	215	10	12	68	145	125
5052	H32	230	195	12	16	60	140	115
5056	H18	435	405	—	9	105	235	150
5083	O	290	145	—	20	—	170	—
5083	H112	275	125	10	18	80	180	125
5182	H111	255	110	10	12	67	145	125
5754	H111	240	80	12	12	65	135	120
5A06	H112	305	155	13	10	87	195	128
6060	T6	310	276	12	15	95	205	90
6061	T6	310	275	12	15	95	205	95
6063	T6	240	190	8	8	65	135	115
6063	T5	185	145	12	—	60	115	70
6082	T6	310	260	10	10	95	200	90
6A02	T6	295	250	12	12	86	190	85
6N01	T5	270	225	—	12	88	—	95
7075	T6	570	505	11	9	150	330	160
7050	T7451	525	470	—	10	—	305	—
7050	T651	510	496	11	10	135	304	104

■ Typical values, for reference only  
典型数值, 只供参考

## Aluminum Characteristics 铝的特性表

Alloy 合金	Grade 牌号	Outline of Material Properties 材料特性简介	Application Examples 主要用途
Al	1060	Al purity ≥99.0%, conductivity of 61%IACS or above conductive materials (when strength is needed, use 6101). 铝纯度≥99.0%, 导电率达61%IACS以上, 当需要强度时使用6101.	Wire, busbar, deep drawing parts, kitchenware, checker plate. 电线、母线、深冲件、厨具、花纹板。
	1050	Although pure aluminum has low strength, it has high thermal and electrical conductivity, and is excellent in formability, weldability, and corrosion resistance. 纯铝强度低但导热性和导电性高, 成形性、焊接性和耐腐蚀性优异。	Daily necessities, decorations, lighting fixtures, signs, conductive materials, and printing plates. 日用品、装饰品、标牌、照明、导电料, 印刷版
	1070		
	1080		
	1100	Al purity ≥ 99.0%, same as above except that the appearance becomes slightly whiter and the strength increases after anodizing. Al≥99%, 除氧化处理后的外观略微变白, 及强度增加, 与上述同。	General appliances, heat sinks, covers, building materials, heat exchangers. 一般器具、散热片、盖子、建材、热交换器
Al-Cu	2011	Free-cutting alloy. Excellent machinability and high strength, but poor corrosion resistance. 易切削合金。切削性优异, 强度也高, 但耐腐蚀性差。	Optical components, threads, and free-cutting rods for automatic machinery. 光学元件、螺纹类、自动机械用易切削棒
	2014	The Cu content is high, so the corrosion resistance is poor, but the strength is high, and it is generally used as a structural material. It is also suitable for forgings. Cu含量高耐腐蚀性不好, 但强度高, 一般用作结构用材料或锻件。	Aircraft, gears, wave pressure parts, hubs, vehicle structures. 飞机、齿轮、波压零件、集线器、车辆结构件。
	2017		
	2024		
	2A12		
	2018	Forging alloy. excellent forgeability and high high temperature strength, it is used when hot forging is required. Poor corrosion resistance. 锻造用合金。由于锻造性优异、高温强度高, 因此在要求对热性锻被使用。耐腐蚀性较差。	Cylinder, piston, impeller. 气缸、活塞、叶轮。
	2218	It has high strength, excellent low /high temperature characteristics, and excellent weldability, but poor corrosion resistance. 强度高, 低温及高温特性优异, 焊接性也优异, 但耐腐蚀性差。	Cryogenic tanks, aerospace equipment 低温用罐、航空航天设备
2219	Die Forgings and Free Forgings 模锻件与自由锻件	Pistons and aircraft engine parts 活塞和航空发动机零件	
Al-Mn	2A50	In the hot state, it has high plasticity, which is convenient for forging and stamping operations. 在热状态下, 具有极高的可塑性, 便于进行锻造和冲压操作	Medium strength parts with complex shapes. 形状复杂的中等强度零件。 Engine pistons, guide wheels, wheels, etc. 航空器发动机活塞、导风轮、轮盘等。
	2A70		
	3003	The strength is about 10% higher than 1100, with good formability, weldability and corrosion resistance. 强度比1100高约10%, 成形性、焊接性和耐腐蚀性好	Heat sinks, decorative panels, ship materials, new energy battery shells/trays 散热片、装饰板、船舶材料、新能源电池壳/托
	3004	The strength is higher than 3003, the formability is excellent, and the corrosion resistance is also good. 强度高于3003, 成形性优异, 耐蚀性也良好。	Building materials, colored aluminum roof shingles. 建筑材料、彩色铝屋顶屋面板。
Al-Si	3A21	3A21 has a high manganese content and is a widely used rust-proof aluminum with similar properties to 3003. 3A21锰含量高, 是一种应用广泛的防锈铝, 特性与3003相似。	Fuel tanks, oil pipes, building and food equipment, body skins, floors. 油箱、油路、建筑和食品设备, 车体蒙皮, 地板
	4032	High silicon content, small thermal expansion coefficient, good heat resistance and wear resistance. 硅含量高, 热膨胀系数小, 耐热性和耐磨耗性好。	Welding wire, building springs, pistons, cylinders 焊接线、建筑弹簧、活塞、缸体
Al-Mg	5005	The strength is between 3003 and 5052, with good processability, weldability and corrosion resistance. Excellent anodizing performance. 强度介于3003和5052间, 加工性、焊接性、耐蚀性、阳极氧化性能好	Interior and exterior decoration of buildings, vehicle interiors, and ship interiors 建筑用内外装饰、车辆内饰、船舶的内饰
	5052	A representative alloy with medium strength, good corrosion resistance, weldability, and formability. High fatigue strength and good seawater corrosion resistance. 中等强度的代表性的合金, 耐腐蚀性、焊接性、成形性良好。疲劳强度高, 耐海水腐蚀性良好。	Vehicles, ships, buildings, LCD back panels, home appliances and instrument housings, daily necessities. 车辆, 船舶, 建筑, 液晶背板, 家电及仪表外壳, 日用品。
	5056	It has good machinability, weldability and corrosion resistance, and good anodizing and dyeing properties. 切削性, 焊接性和耐腐蚀性良好, 阳极氧化处理性和染色性良好。	Camera lens, communication equipment parts, zippers, ship accessories 照相机镜头、通信设备部件、拉链, 船舶配件。

Alloy 合金	Grade 牌号	Outline of Material Properties 材料特性简介	Application Examples 主要用途
Al-Mg	5083	Alloy for welding structure. High strength among non-heat-treatable alloys. Good corrosion resistance, workability, seawater resistance, and low temperature characteristics. 焊接构造用合金, 强度高, 耐蚀性、加工性、耐海水性、低温性良好	Ships, vehicles, cryogenic tanks, pressure vessels, medical equipment 船舶, 车辆, 低温用罐, 压力容器, 医疗设备
	5086	A non-heat-treatable alloy for welded structures with higher strength than 5154 and excellent seawater resistance. 强度高于5154, 耐海水性优异的非热处理系焊接结构用合金。	Ships, pressure vessels, transportation equipment 船舶, 压力容器, 运输设备
	5154	The strength is about 20% higher than 5052. Other properties are the same as 5052. 强度比5052高约20%。其他特性与5052相同。	Welded structures, pressure vessels, ship structures and offshore facilities, transport tanks. 焊接结构、压力容器、船舶结构及槽罐
	5754	Higher strength than 5052, good stamping performance and corrosion resistance 比5052强度高, 良好的冲压性能、耐腐蚀性能	Office equipment, cameras, sheet metal parts for vehicles and ships, instrument housings. 办公设备, 相机, 车船钣金件, 仪器外壳
	5182	Excellent stamping performance (better than 5754) 优良的冲压性能(优于5754)	Can lids, automotive body panels, reinforcements. 易拉罐盖, 车身板, 加强件。
	5A05 5A06	The magnesium content is higher than 5083, medium strength, excellent corrosion resistance 镁含量比5083高, 中等强度, 耐蚀性优越	Welded structures, welded container load-bearing parts, aircraft skin and frame parts. 焊接结构, 焊拉容器, 飞机蒙皮骨
Al-Mg-Si	6016	Excellent stamping, flanging and baking hardening properties 优良的冲压、翻边、烘烤硬化性能	Automobile body inner and outer panels, structural parts. 汽车车身内外板、结构件。
	6061	Heat-treated corrosion-resistant alloy. T6 treatment can achieve a relatively high endurance, but it is mostly used for structural materials because of its weak welding interface. 热处理型的耐腐蚀性合金。T6处理可以得到相当高的耐力, 因焊接接口弱, 故用于构造材料较多。	Ships, vehicles, 3C electronics, molds, daily necessities, mechanical parts, etc. 船舶、车辆、3C电子、模具、日用品、机械零件部等
	6063	Can achieve complex cross-sectional shapes with extrusion, and has good corrosion resistance and surface treatment properties. Its strength is lower than that of 6061. 代表性的挤压用合金, 可获得复杂的截面形状, 耐腐蚀性、表面处理性也良好。强度低于6061。	Buildings, guardrails, vehicles, furniture, home appliances, decorations 建筑、护栏、车辆、家具、家电、装饰品
	6082	Slightly stronger than 6061, with above-average strength. 比6061强度略高, 强度中等偏上。	Building and bridge structures, automotive and suspension parts, sports equipment, molds. 建筑结构, 汽车, 运动器具, 模具。
	6101	High-strength conductive material. Conductivity is above 55% IACS. Good bending performance 高强度导电用材。导电率达55%IACS以上。折弯性能好	Busbar, wire 母线、电线
	6151	It has excellent forging workability, corrosion resistance, and good surface treatment properties, and is suitable for complex forgings. 锻造加工性优异、耐腐蚀性、表面处理性好, 适合于复杂锻造品。	Machinery and auto parts 机械、汽车部品
Al-Zn-Mg	6N01	Strength is between 6061 and 6063, and it has excellent extrusion and is suitable for large thin-walled materials with complex shapes. good corrosion resistance and weldability. 强度在6061和6063间, 可用于大型薄壁形材料。耐蚀性焊接性良好。	Vehicles, land structures, ships 车辆、陆上构造物、船舶
	7050	An alloy with improved hardenability of 7075, which has excellent resistance to stress corrosion cracking. Suitable for thick plates and forgings. 具有优异的抗应力腐蚀裂纹性。适合于厚板、锻造品。	Aerospace, military 航天航空, 军工
	7075	With top strength in aluminum, used where high strength is needed, but poor corrosion resistance. Very widely used 是铝合金中具有非常高强度的合金之一, 应用广泛, 但耐腐蚀性差	Aircraft, molds, 3C electronics, outdoor products, and smart equipment. 飞机、模具、3C电子、户外用品、智能装备。
	7475	Fe and Si is suppressed, and the fracture toughness is improved. Superplasticity is exhibited by implementing special processing heat treatment. 将7075高纯化, 抑制Fe、Si量, 提高断裂韧性。通过实施特殊的加工热处理, 表现出超塑性。	Aerospace, military 航天航空, 军工
	7A04 7A09	The performance is similar to 7075, but the strength is slightly lower than 7075. 性能与7075类似, 但强度比7075稍低。	Aircraft skin, screws, and load-bearing components. 飞机蒙皮、螺钉、以及受力构件
	Al-Fe	8011	The aluminum foil has excellent moisture resistance, light blocking and high barrier properties. 制成铝箔具有优良的防潮、遮光和阻隔能力。

## Physical Properties of Aluminum Alloy 铝合金物理性能

Alloy 合金		Density (20°C) Mg/m <sup>3</sup>	Melting temperature range °C	Conductivity (20°C) IACS. %	Thermal conductivity (20°C) KW/m.°C
Grade 牌号	Temper 状态	密度	熔融温度范围	导电率	热传导率
1050 1060	H18	2.7	646-657	61-62	0.23
1100	O	2.71	643-657	59	0.22
1200	H18			57	
2011	T3	2.82	541-638	39	0.15
	T8			45	0.17
2014	O	2.80	507-638	50	0.19
	T4			34	0.13
	T6			40	0.15
2017	O	2.79	513-640	50	0.19
	T4			34	0.13
2018	T61	2.80	507-638	40	0.15
2024	O	2.77	502-638	50	0.19
	T3/T4			30	0.12
2A12	T6/T81			38	0.15
2117	T4	2.74	510-649	40	0.15
2218	T72	2.80	532-635	40	0.15
2618	T6	2.76	549-638	37	0.15
2219	O	2.84	543-643	44	0.17
	T31/T37			28	0.11
	T81/T87			30	0.12
3003	O	2.73	643-654	50	0.19
	H18			40	0.15
3004	Avg. of all 全状态平均值	2.72	629-654	42	0.16
3105	Avg. of all tempering	2.71	638-657	45	0.17
4032	O	2.68	532-571	40	0.15
	T6			35	0.14
4043	Avg. of all tempering	2.68	575-630	42	0.16
5005	Avg. of all tempering	2.70	532-652	52	0.20
5050	Avg. of all tempering	2.69	627-652	50	0.19
5052	Avg. of all tempering	2.68	607-649	35	0.14
5652	Avg. of all tempering	2.67	607-649	35	0.14
5154	Avg. of all tempering	2.66	593-643	32	0.13
5254	Avg. of all tempering	2.66	593-643	32	0.13
5454	Avg. of all tempering	2.68	602-646	34	0.13
5056	O	2.64	568-638	29	0.12
	H38			27	0.11
5356	O	2.64	574-638	29	0.12
5083	O	2.66	574-638	29	0.12
5182	O	2.65	577-638	31	0.12
5086	O	2.66	585-640	31	0.13
6101	T6	2.70	521-545	57	0.22
6N01	O	2.70	615-652	52	0.22
	T5			46	0.21
	T6			47	0.19
6061	O	2.70	582-652	47	0.19
	T5			40	0.18
	T6			43	0.15
6151	O	2.71	588-650	54	0.17
	T4			42	0.21
6262	T6	2.72	585-650	45	0.16
	T9			44	0.18
6063	O	2.69	615-655	58	0.17
	T5			55	0.22
	T6			53	0.21
7003	T5	2.79	620-650	37	0.2
7050	O	2.83	524-635	47	0.15
	T76			40	0.15
7072	O	2.72	646-657	59	0.22
7075	T6	2.80	477-635	33	0.13
7475	O	2.81	538-635	46	0.18
	T61/T651			36	0.14
7N01	T6	2.78	620-650	36	0.14

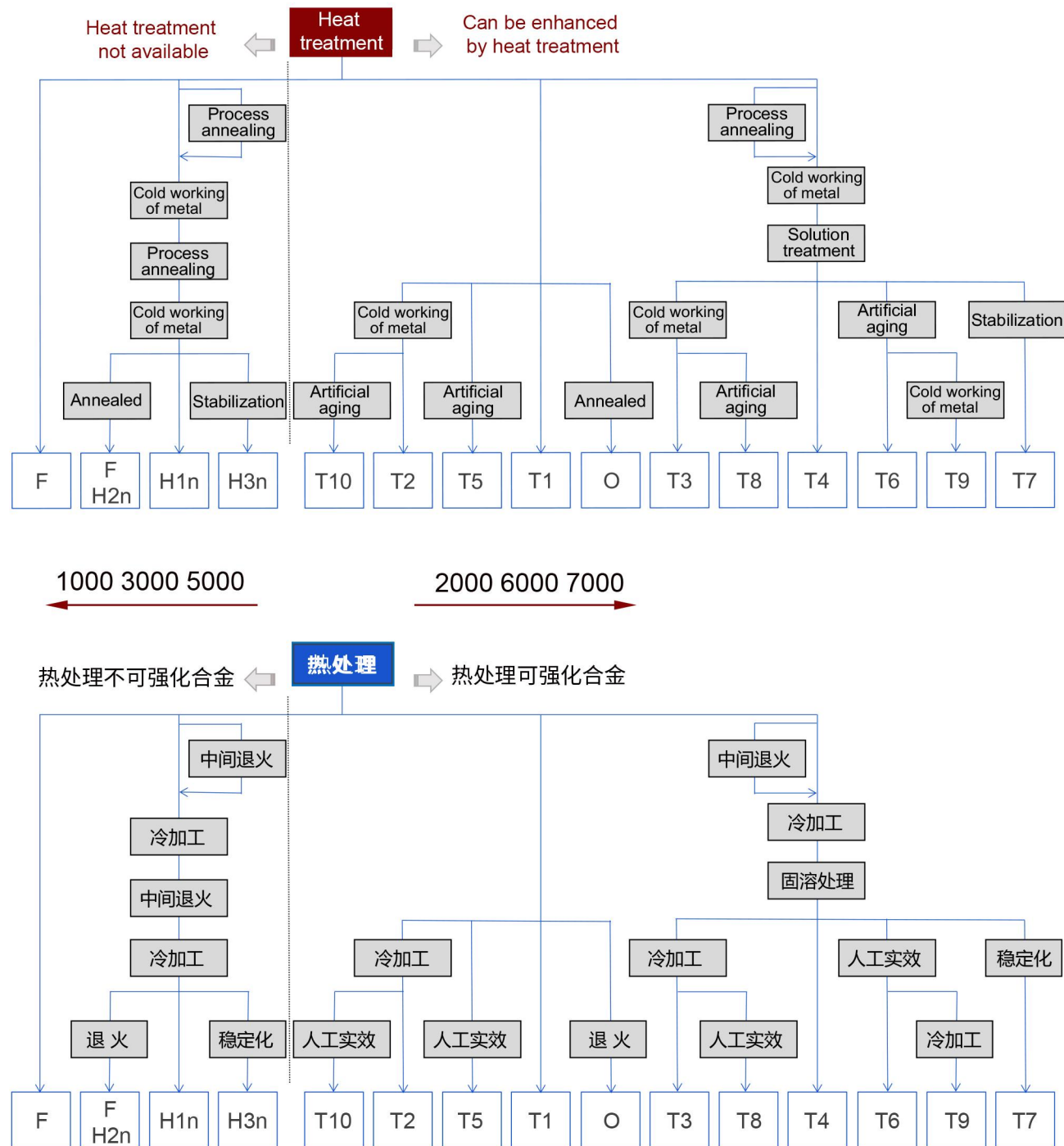
## International Grade Comparison of Aluminum 铝合金国际牌号对照表

### 铝合金国际牌号对照表

China 中国		International (ISO)	U.S.A (AA)	Japan (JIS)	Russia (ГОСТ)	Germany (DIN)	U.K. (BS)	France (NF)
Old Grade 旧牌号	New Grade 新牌号	国际	美国	日本	俄罗斯	德国	英国	法国
LG5	1A99	/	1199	1N99	AB000	Al99.98R	S1	/
LG2	1A90	/	1090	1N90	AB1	Al99.9	/	/
LG1	1A85	Al99.8	1080	A1080	AB2	Al99.8	1A	/
L1	1070A	Al99.7	1070	A1070	A00	Al99.7	/	1070A
L2	1060	Al99.6	1060	A1060	AO	A6	1B	/
L3	1050A	Al99.5	1050	A1050	A1	A199.5	1B	1050A
/	1050	1050	1050	A1050	1011	Al99.5	1B	A5
L5-1	1100	A199.0	1100	A1100	/	Al99.0	3L54	1100
L5	1200	Al99.0Cu	1200	A1200	/	Al99	1C	1200
LY1	2A01	AlCu2.5Mg	2217	A2217	A П18	AlCu2.5Mg0.5	3L86	/
LY11	2A11	AlCu4Mg	2017	A2017	A П 1	AlCuMg 1	H15	2017A
/	2011	/	2011	2011	/	AlCuBiPb	/	/
/	2017	/	2017	A2017	/	AlCuMg	H14	A-U4G
LD7	2A70	AlCu2Mg	2618	A2618	AK4-1	/	H16	2618A
LD9	2A90	/	2018	A2018	AK2	/	/	/
/	2014	AlCu4SiMg	2014	A2014	AK8	AlCuSiMg	/	2014
LY12	2A12	AlCuMg1	2024	A2024	A П 16	AlCuMg2	GB-24S	2024
/	2024	AlCuMg	2024	A2024	П16	AlCuMg2	/	A-U4G1
LF21	3A21	AlMn1Cu	3003	A3003	Amn	AlMnCu	N3	3003
/	3003	AlMn1Cu	3003	A3003	AMn	AlMnCu	3103	A-M1
LF2	5A02	AlMg2.5	5052	A5052	Amr 2	AlMg2.5	NS4	5052
LF3	5A03	AlMg3.5	5154	A5154	AMr 3	AlMg3	NS5	/
LF4	5083	AlMg4.5Mn0.7	5083	A5083	AMr 4	AlMg4.5Mn	NT8	5083
/	5052	AlMg2.5	5052	A5052	/	AlMg2.5	2L.55	A-G2.5C
LF5-1	5056	AlMg5Cr	5056	A5056	/	AlMg5	NG6	/
LF5	5A05	AlMg5Mn1	5456	A5056	Amr 5	/	A56S	/
LD2	6A02	/	6165	A6165	AB	AlSiMgCu	/	/
LD30	6061	AlMg1SiCu	6061	A6061	A П 33	AlMg1SiCu	H20	6061
LD31	6063	AlMg0.7Si	6063	A6063	A П 31	AlMgSi0.5	Ht9	A-GS
LC3	7A03	AlZn7MgCu	7174	/	B94	/	/	/
LC9	7A09	AlZn5.5MgCu	7075	A7075	/	AlZnMgCu1.5	C77S	7075
LC10	7A10	/	7079	7N11	/	AlZnMgCu0.5	/	/
/	7050	AlZn6CuMg2r	7050	A7075	/	/	/	/
/	7075	AlZn5.5MgCu	7075	A7075	B95	AlZnMgCu1.5	C77S	A-Z5GU



## Temper Names of Deformed Aluminum Alloy 变形铝合金状态代号查询



Tx51 : Stretch to relieve stress 拉伸消除应力  
 Tx511 : Straightening after stretching 拉伸后需校直  
 Tx52 : Compress to relieve stress 压缩消除应力

## Hardness and Tensile Strength Contrast of Metal 金属硬度和抗拉强度对照表

Tensile strength 抗拉强度 (N/mm <sup>2</sup> )	Vickers hardness 维氏硬度 HV	Brinell hardness 布氏硬度 HB	Rockwell hardness 洛氏硬度 HRC	Tensile strength 抗拉强度 (N/mm <sup>2</sup> )	Vickers hardness 维氏硬度 HV	Brinell hardness 布氏硬度 HB	Rockwell hardness 洛氏硬度 HRC	Tensile strength 抗拉强度 (N/mm <sup>2</sup> )	Vickers hardness 维氏硬度 HV	Brinell hardness 布氏硬度 HB	Rockwell hardness 洛氏硬度 HRC
255	80	76	—	785	245	233	21.3	1665	510	-485	49.8
270	85	80.7	—	800	250	238	22.2	1700	520	-494	50.5
285	90	85.2	—	820	255	242	23.1	1740	530	-504	51.1
305	95	90.2	—	835	260	247	24	1775	540	-513	51.7
320	100	95	—	850	265	252	24.8	1810	550	-523	52.3
335	105	99.8	—	865	270	257	25.6	1845	560	-532	53
350	110	105	—	880	275	261	26.4	1880	570	-542	53.6
370	115	109	—	900	280	266	27.1	1920	580	-551	54.1
380	120	114	—	915	285	271	27.8	1955	590	-561	54.7
400	125	119	—	930	290	276	28.5	1995	600	-570	55.2
415	130	124	—	950	295	280	29.2	2030	610	-580	55.7
430	135	128	—	965	300	285	29.8	2070	620	-589	56.3
450	140	133	—	995	310	295	31	2105	630	-599	56.8
465	145	138	—	1030	320	304	32.2	2145	640	-608	57.3
480	150	143	—	1060	330	314	33.3	2180	650	-618	57.8
490	155	147	—	1095	340	323	34.4		660		58.3
510	160	152	—	1125	350	333	35.5		670		58.8
530	165	156	—	1115	360	342	36.6		680		59.2
545	170	162	—	1190	370	352	37.7		690		59.7
560	175	166	—	1220	380	361	38.8		700		60.1
575	180	171	—	1255	390	371	39.8		720		61
595	185	176	—	1290	400	380	40.8		740		61.8
610	190	181	—	1320	410	390	41.8		760		62.5
625	195	185	—	1350	420	399	42.7		780		63.3
640	200	190	—	1385	430	409	43.6		800		64
660	205	195	—	1420	440	418	44.5		820		64.7
675	210	199	—	1455	450	428	45.3		840		65.3
690	215	204	—	1485	460	437	46.1		860		65.9
705	220	209	—	1520	470	447	46.9		880		66.4
720	225	214	—	1555	480	456	47.7		900		67
740	230	219	—	1595	490	466	48.4		920		67.5
755	235	223	—	1630	500	475	49.1		940		68
770	240	228	20.3								

■ TITANIUM CHEMICAL COMPOSITION

钛的化学成分表

Material Grade 合金牌号	Nominal Chemical Composition 名义化学成分	Chemical composition ratio % 化学成分 (百分比)														
		Main compositions 主要成分								Impurity Composition ≤ 杂质不大于						
		Ti 含量	Al	V	Mo	Zr	Ni	Si	Pd	Fe	C	N	H	O	Others 其他	
														Each	Total	
TA1	工业纯钛	Rem.								0.25	0.10	0.03	0.015	0.20	0.10	0.40
GR1	Industrial Pure Titanium	Rem.								0.20	0.08	0.03	0.015	0.18	0.10	0.40
TA2	工业纯钛	Rem.								0.30	0.10	0.05	0.015	0.25	0.10	0.40
GR2	Industrial Pure Titanium	Rem.								0.30	0.08	0.05	0.015	0.20	0.10	0.40
TA3	工业纯钛	Rem.								0.40	0.10	0.05	0.015	0.30	0.10	0.40
TA9	Ti-0.2Pd	Rem.							0.12-0.25	0.30	0.08	0.03	0.015	0.25	0.10	0.40
TA10	Ti-0.3Mo-0.8Ni	Rem.			0.2-0.4		0.6-0.9			0.30	0.08	0.03	0.015	0.25	0.10	0.40
TA16	Ti-2Al-2.5Zr	Rem.	1.8-2.5			2.0-3.0		≤0.12		0.25	0.08	0.04	0.006	0.15	0.10	0.40
TC4	Ti-6Al-4V	Rem.	5.50-6.75	3.5-4.5						0.30	0.08	0.05	0.015	0.20	0.10	0.40
GR5	Ti-6Al-4V	Rem.	5.50-6.75	3.5-4.5						0.30	0.08	0.05	0.015	0.20	0.10	0.30
TA11	Ti-5Al-3.5Mo-1.5Zr-0.3Si	Rem.	5.8-7.8		2.8-3.8	0.8-2.0		0.2-0.35		0.25	0.08	0.05	0.012	0.015	0.10	4.00

■ TITANIUM MECHANICAL PROPERTIES

钛的力学性能表

牌号	抗拉强度 Rm/Mpa	延伸强度 Rp0.2/Mpa	断面伸长率 A/%	断面收缩率 Z/%
	不小于			
TA1	240	140	24	30
TA2	400	275	20	30
TA3	500	380	18	30
TA4	580	485	15	25
TA5	685	585	15	40
TA6	685	585	10	27
TA7	785	680	10	25
TA9	370	250	20	25
TA10	485	345	18	25
TC1	585	460	15	30
TC2	685	560	12	30
TC3	800	700	10	25
TC4	895	825	10	25
TC4 ELI	830	760	10	15
TC11	1030	900	10	30

Alloys Specifications	Status	Tensile Strength		Yield Strength		Elongation	Area of Reduction
		Ksi	Mpa	Ksi	Mpa	%	
		≥					
Grade1	Annealed	35	240	25	170	24	30
Grade2	Annealed	50	345	40	275	20	30
Grade3	Annealed	65	450	55	380	18	30
Grade4	Annealed	80	550	70	483	15	25
Grade5	Annealed	130	895	120	828	10	25
Ti-6AL-4VELI	Annealed	125	860	115	795	10	25
Grade6	Annealed	120	828	115	483	15	25
Grade7	Annealed	50	345	40	275	20	30
Grade9	Annealed	90	620	70	483	15	25
Grade11	Annealed	35	240	25	170	24	30
Grade12	Annealed	70	483	50	345	18	25

■ TITANIUM & ALLOY GRADES COMPARISON OF CHINESE AND INTERNATIONAL NAME (SIMILAR)

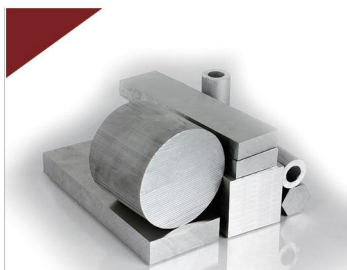
钛合金牌号相近(相似)中外对照表

Grade 牌号	Chinese Standard 国标	America 美标	Russia 俄标	Japan 日标
TA1	Industrial Pure Titanium 工业纯钛	GR1	BT1-00	TP270
TA2	Industrial Pure Titanium 工业纯钛	GR2	BT1-0	TP340
TA3	Industrial Pure Titanium 工业纯钛	GR3		TA450
TA4	Industrial Pure Titanium 工业纯钛	GR4		TA550
TA8	Ti-0.05Pd	GR16		
TA8-1	Ti-0.05Pd(板换)	GR17		
TA9	Ti 0.2Pd	GR7		TP340Pb
TA9-1	Ti-0.02Pd(板换)	GR11		
TA10	Ti-0.3Mo-0.8Ni	GR12		
TA17	Ti-4AL-2V		IIT-3B	
TA18	Ti-3AL-2.5V	GR9	OT4-1B	TAP3250
TB5	Ti-15V-3AL-3Gr-3Sn	Ti-15333		
TC4	Ti-6AL-4V	GR5	BT6	TAP6400
TC1	Ti-2AL-1.5Mn		OT4-1	
TC2	Ti-4AL-1.5Mn		OT4	
TC3	Ti-5AL-4V		BT6C	
TC10	Ti-6AL-6V-2Sn-0.5Cu-0.5Fe	Ti-662		
TC24	Ti-4.5AL-3V-2Mo-2Fe			SP-700
TA7	Ti-5AL-2.5Sn	GR6	BT5-1	TAP5250
TA11	Ti 8AL IMo IV	Ti-811		
TA15	Ti 6.5AL IMo 1V-2Zr		BT-20	

■ TITANIUM & ALLOYS COMPARISON OF PHYSICAL PROPERTIES WITH SOME OTHER METALS

钛及其合金与其他一些金属的物理性能的比较

Physical Properties 物理特性值	Pure Titanium 纯钛 Tp340	Titanium Alloy 钛合金 Ti-6Al-4V	Plain Steel 普通钢 SPCC	Stainless Steel 不锈钢 SUS304	Pure Aluminum 纯铝 A1060	Aluminum Alloy 铝合金 A5052	Magnesium Alloy 镁合金 AZ31	Copper 铜 C1020-0
Melting Point 熔点 /°C	1668	1540~1650	1530	1400~1427	646~657	476~638	630	1083
Density 密度 / (g/cm) <sup>3</sup>	4.51	4.43	7.90	7.90	2.70	2.80	1.77	8.93
CLTE 线膨胀系数 /K <sup>-1</sup>	8.4×10 <sup>-6</sup>	8.8×10 <sup>-6</sup>	12.0×10 <sup>-6</sup>	17.0×10 <sup>-6</sup>	23.8×10 <sup>-6</sup>	23.0×10 <sup>-6</sup>	25.0×10 <sup>-6</sup>	17.0×10 <sup>-6</sup>
Thermal Conductivity 热导率 /[W/ (m·K)]	17.0	7.5	63.0	16.0	233.0	121.0	159.0	385.0
Specific Heat Capacity 质量热容 /[J/ (kg·k)]	519	585	460	502	890	962	1004	385
Conductivity相对电导率 compare Cu (%)	3.1	1.0	18.0	2.4	60.0	30.0	40.0	100.0
Specific Resistance 电阻率 (uQ·m)	0.550	1.702	0.097	0.720	0.028	0.058	0.043	0.017
LME mpa 纵弹性模量 /GPa	106.3	113.2	205.8	199.9	70.0	71.5	44.8	107.8



## 1 One-stop metal purchasing station

We maintain an inventory of over 8000 tons of metal material, such as aluminum plate, rod, bar, pipe, profile, coil. Also, we keep titanium, magnesium, stainless steel, etc.

一站式金属采购站  
超过8000吨的库存金属材料

## 2 Quick worldwide delivery

Orders are sent to the world every day, and the fastest shipment can be made in 2-7 days to overseas

快速发货  
长三角地区 最快当日次日达



## 3 Quick response & Good service

1, We quickly provide estimates, take orders, and answer any questions in English by e-mail, phone, or WhatsApp / Wechats.  
2, Mde-to-order even just one small size

快速反应及优质服务  
一件可代发

## 4 Quality assurance system

1, Materials are made by leading factories in China.  
2, Material Traceability. Il materials are traceable with epr system management

质量保障体系  
大厂材料质量可靠稳定, 所有材质包括零头可溯源



## 5 Excellent machinery and equipment

1, All of the products in our inventory can be cut to the exactly desired dimensions and machined as needed.  
2, We have dozens of experienced technicians.

机器设备精良  
设备齐全, 提供材料切割及后加工服务

## 6 Experienced team provides industry solutions

According to the different needs of the industry, as well as the different characteristics of the material, we can find the template in the past service system.

资深团队提供行业解决方案  
根据行业需求和材料特性提供方案



Made in China Makes Your Metal Products More Competitive

每一刻, 都有客户使用我们的金属材料制作各种产品, 中国制造让你的产品更具竞争力

