Shandong Xin Wugang Steel

# ALUMINUM PRODUCT CATALOG

**WIDELY USED**

SHEET & PLATE

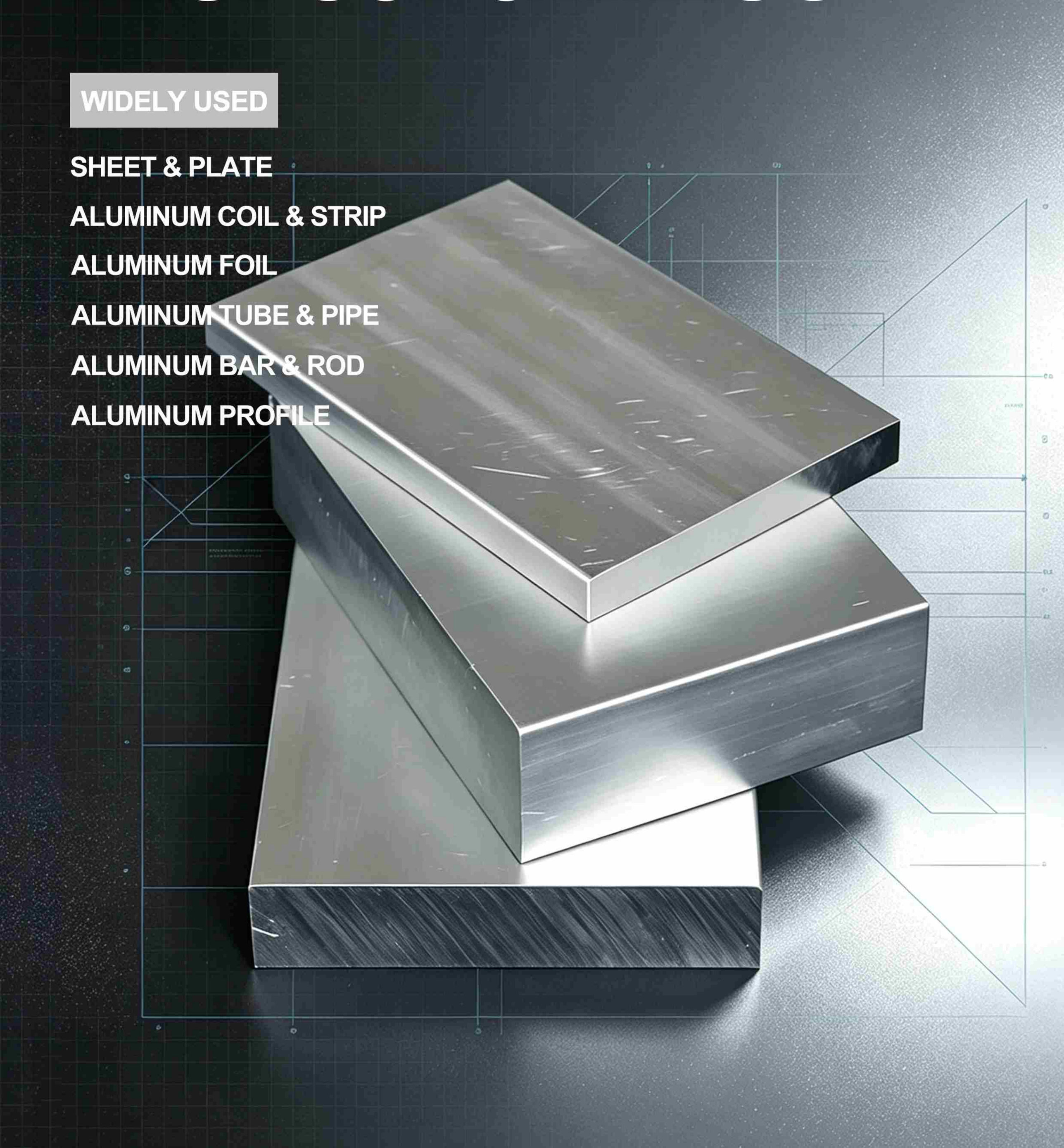
ALUMINUM COIL & STRIP

ALUMINUM FOIL

ALUMINUM TUBE & PIPE

ALUMINUM BAR & ROD

ALUMINUM PROFILE



# About us.

山东鑫武钢铁有限公司是一家综合性钢铁企业，深耕钢铁行业多年，依托完善的产业链布局、先进的生产装备、严苛的质量体系和贴心的全域服务，稳步发展为具有竞争力与口碑的标杆型钢铁企业，广泛服务于基建工程、机械制造、汽车工业、钢结构等多个核心领域。公司秉持客户至上、诚信为本、服务为先的经营宗旨，打造一站式全周期贴心服务体系。持续为客户提供高品质钢铁产品与一站式优质服务，致力于打造国内一流的现代化钢铁综合服务商与各界合作伙伴携手共赢、共创未来!

Shandong Xinwugang Steel Co., Ltd. is a comprehensive iron and steel enterprise with years of profound experience in the steel industry. Backed by a complete industrial chain layout, advanced production equipment, stringent quality management systems and thoughtful all-round services, we have steadily grown into a benchmark steel enterprise with strong competitiveness and a solid reputation. Our products widely serve a host of core sectors including infrastructure engineering, machinery manufacturing, automobile industry and steel structure construction.

Adhering to the business tenets of "customer supremacy, integrity-based operation and service first", the company has built a one-stop full-cycle considerate service system. We consistently supply high-quality steel products and all-in-one premium services to clients, and strive to become a first-class modern comprehensive steel service provider nationwide. We look forward to win-win cooperation and a shared bright future with all partners from all walks of life!

The most dynamic enterprise
and leader in the steel trading industry.

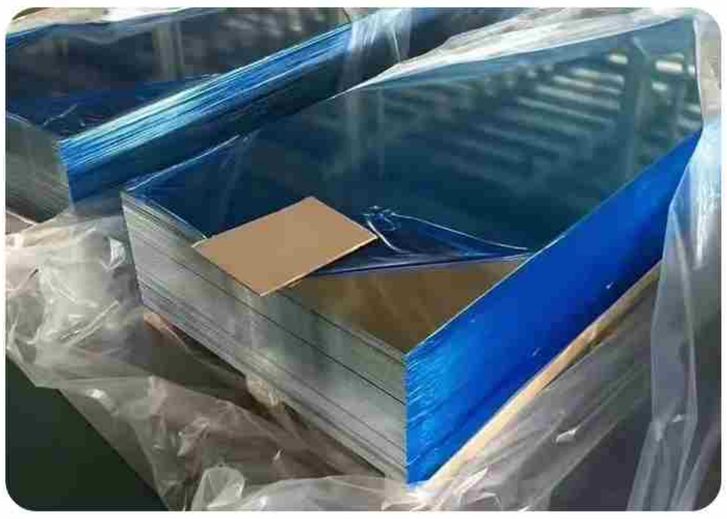
**最具活力企业，钢铁贸易行业的领导者。**



Product Description

# ALUMINUM SHEET & PLATE

## ALUMINUM SHEET





### Description- Aluminum Sheet :

**Standard**: GB/T 3880.1~3880.3-2017、ASTM B209/B209M、EN 485-1~485-4、JIS H4000 GOST 21631-2019、GOST 4784、ISO 6361

**Grade**: 1 series pure aluminum

1050（A1050/EN AW-1050/ГОСТ АД0）

1060 (A1060/АД00)

1070 (A1070/АД1)

1100 (A1100/АД1)

1200, 1235, 1090 high-purity aluminum

3-series aluminum manganese anti rust alloy

3003 (A3003/EN AW-3003/АМц)

3004 (A3004/АМц 0.5), 3005, 3105, 3014

5 series aluminum magnesium anti rust alloy

5005, 5052 (A5052/АМг 2), 5083 (A5083/АМг 3), 5086 (A5086/АМг 4), 5754, 5454, 5456

6-series aluminum magnesium silicon heat treated alloy

6061 (A6061/EN AW-6061/АД 33)

6063 (A6063/АД 31), 6082, 6060, 6101

7 Series Ultra High Strength Aviation Aluminum

7075 (A7075/B95), 7050, 7068, 7020

**Conventional standard size**:

Thickness metric model (mm)

Thin plate (0.3~3.0mm): 0.3, 0.4, 0.5, 0.6, 0.8, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0

Medium thick plate (4~200mm): 4, 5, 6, 8, 10, 12, 15, 20, 25, 30, 40, 50, 60, 80, 100, 120, 150, 200

Thickness tolerance: thin plate ± 0.03~0.08mm; medium thick plate ± 0.1~1.0mm

Standard Width: 1000/1220/1500/2000mm; Standard Length: 2000/2440/3000/4000mm

Minimum cutting: 50 × 50mm; maximum whole board 12000mm customized

Export packaging: PE protective film+waterproof wrapping film+solid wood fumigation tray

**Processing status, hardness level**:

O Fully annealed soft state (ultimate bending stamping), H12/H22 1/4 hard, H14/H24 1/2 hard, H16/H26 3/4 hard, H18/H28 fully hard, H32/H34/H36/H38 (5 series specific stable hardening), T4 solid solution natural aging, T6 solid solution artificial aging (6/7 series heat-treated alloy).

## Description- Aluminum Sheet :

**Functional classification**:

General Grade (1060/3003, Decoration, Signage)

Marine Grade (5083/5086, seawater anti-corrosion)

Structural Heavy Duty Level (6061-T6/7075-T6 Aviation Mold)

Conductive Grade (1070/1090 high-purity aluminum, busbar heat dissipation)

**Surface process**:

Hot rolled blanks (Mill Finish), cold rolled bright, anodized (natural/gold/black/champagne), mirror polished, brushed matte, film protection, fluorocarbon paint spraying, polished chrome plating

**Application**:

Decorative buildings: curtain wall aluminum panels, indoor ceilings, signage, decorative carved panels.

Ship ocean: 5083 ship deck, hull lining, yacht structural panels (essential for Russian Far East fishing boats).

Mechanical mold: 6061-T6 equipment base, 7075 aviation mold, fixture plate.

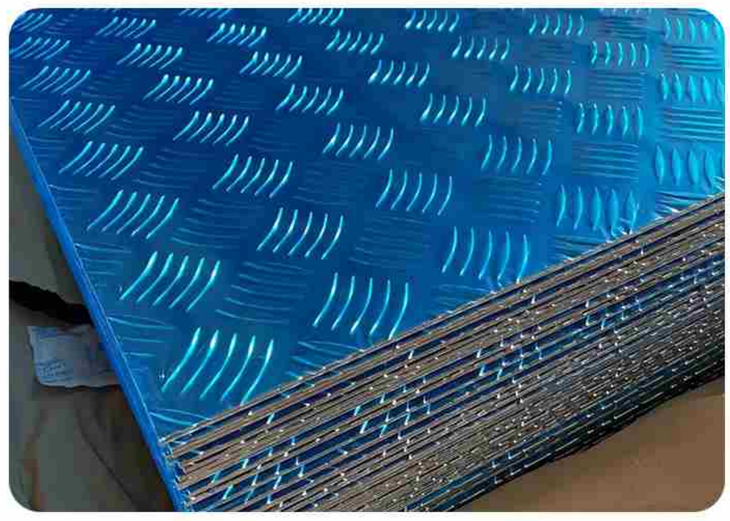
Electrical heat dissipation: 1060/1070 heat dissipation substrate, new energy battery heat dissipation plate.

Transportation logistics: truck compartment floor, container liner, rail transit interior panel.

## ♦ ALUMINUM CHECKERED PLATE







## Description- Aluminum Checkered Plate :

**Standard**: GB/T 3880、ASTM B632、EN 485、JIS H4000、GOST 21631、ISO 6361

**Grade**: 1060、1050、1100、АД0、3003、3004、АМц、5052、5083、АМг2、АМг3

**Conventional standard size**:

Thickness specifications mm: 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0, 8.0, 10.0

Standard board surface: 1000 × 2000, 1220 × 2440, 1500 × 3000mm

Pattern shaping models: 5 Bar Checked Plate with five ribs, Diamond Plate with diamond pattern, Orange Peel Plate with orange peel pattern, 1 Bar single rib anti slip plate

The substrate thickness is 1.5-10mm, and the raised height of the pattern is 0.3-1.2mm; the standard board surface is 1000-1500mm wide and 2000-3000mm long; Tolerance ± 0.1mm substrate thickness

## Description- Aluminum Checkered Plate :

**Processing status level**:

H22, H24, H14 (special hardened state for pattern rolling, not using O soft state)

**Anti corrosion classification**:

Indoor ordinary grade 1060, outdoor rust proof 3003, marine ship 5083

**Surface process**: Cold rolled pattern, natural rust prevention and passivation, anodizing, fluoro-carbon spraying, black anti slip baking paint.

**Application**:

Industrial plant: equipment operation platform, stair treads, workshop floor anti slip plate.

Transportation vehicles: truck compartment floor, bus floor, engineering machinery foot pedal.

Ship dock: 5083 five bar ship deck, anti-skid walkway at port dock.

Building and home decoration: stair treads, anti slip bottom plates for elevator cars, anti slip flooring for garages.

## ♦ ALUMINUM CORRUGATED PLATE







## Description- Aluminum Corrugated Plate :

**Standard**: GB/T 3880、ASTM B209、EN 485、GOST 21631、ISO 6361；JG/T 216

**Grade**: 1050、1060、1070、АД00、АД0、3003、3004、АМц、5052、5083、АМг2

**Conventional standard size**: Substrate thickness mm: 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0, 1.2, 1.5

Corrugated pattern shaping model

840 type (wave height 25mm), 900 type (wave height 20mm, the most commonly used globally), 750 large wave pattern, 1050 wall panel, antique glazed tile corrugated aluminum

Standard effective coverage width: 840mm, 900mm; Customized length 1m~12m

Substrate thickness 0.4~1.5mm; effective width 840/900mm; single piece molding length 1~12m; peak spacing 100~250mm

**Processing status level**: H14, H24 semi hard (specifically designed for corrugated stamping)

**Corrosion resistance grade**: Inland ordinary 1060, rainy and rust proof 3003, coastal ocean 5052

**Application**: Industrial plant: Steel structure plant roof, external wall enclosure corrugated board.

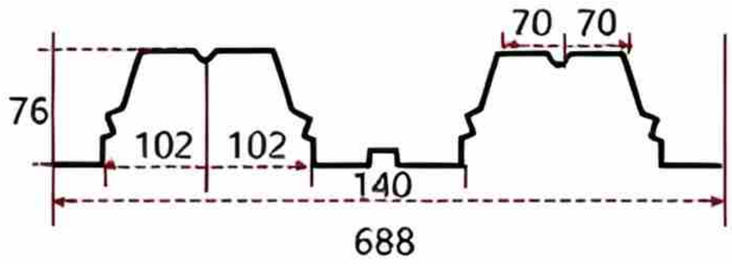
Agricultural greenhouse: waterproof corrugated aluminum sheet for greenhouse roof, enclosure for breeding plant.

Warehouse logistics: warehouse roof, temporary construction site simple house wall roof.

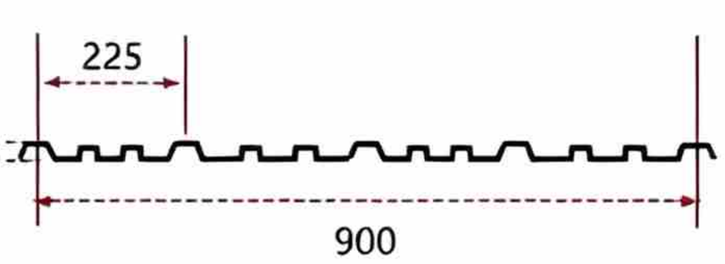
Coastal islands: 5052 high anti-corrosion corrugated tiles, seaside factories, fishing and raft buildings.

## Product Selection

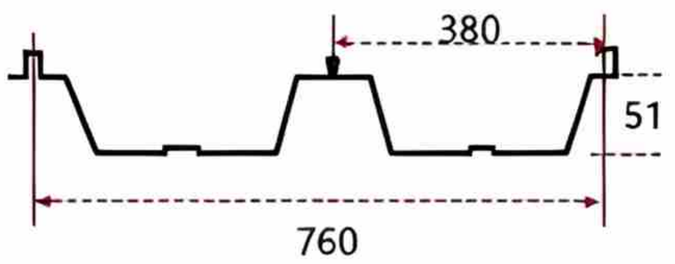
# Reference for corrugated board tile type



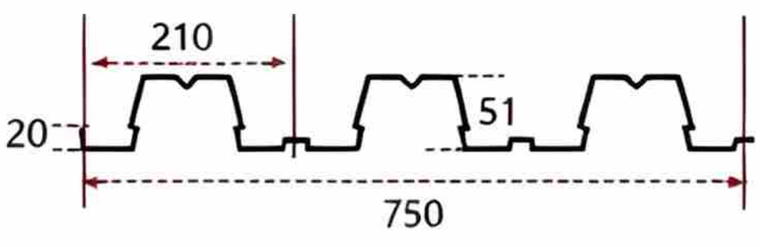

NX688



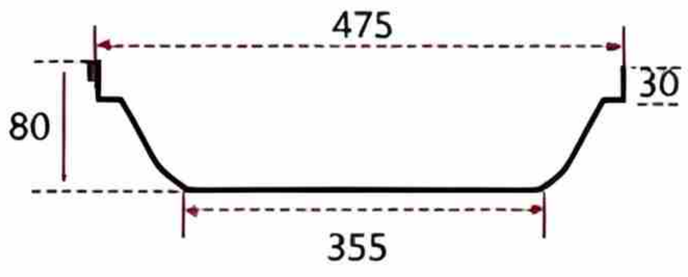

NX15-255-90



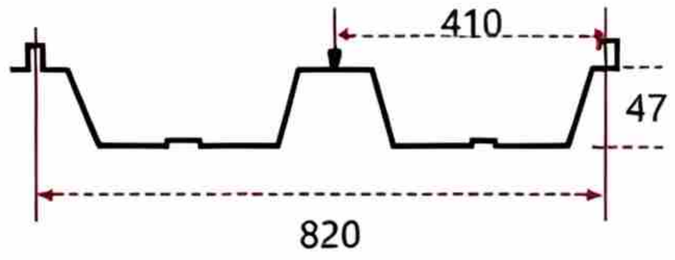

NX51-380-760



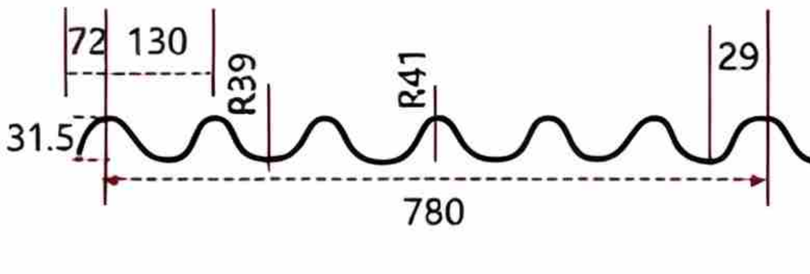

NX51-240-750



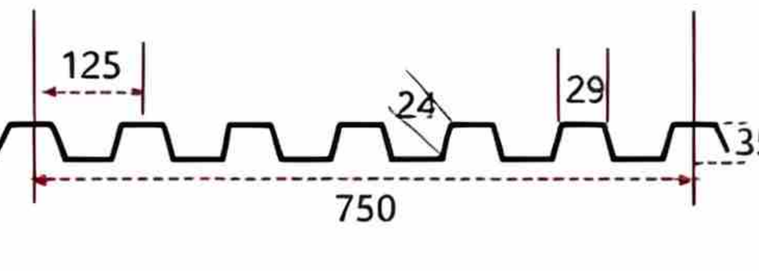

NX470



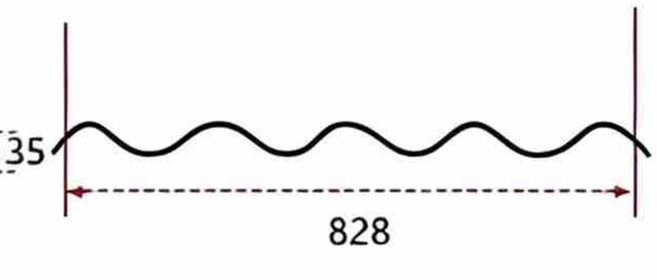

NX47-410-820



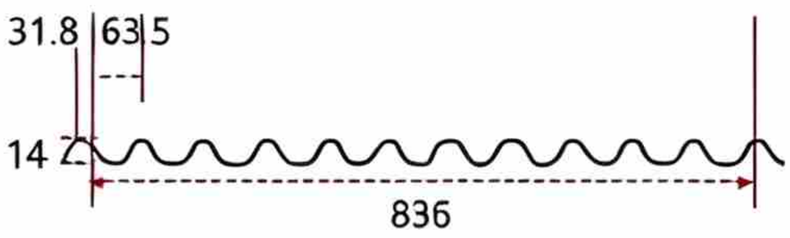

NX31.5-130-780



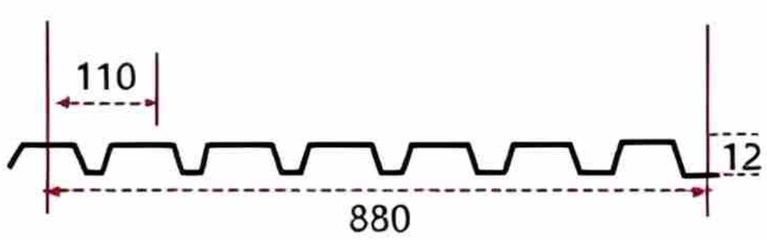

NX35-125-750



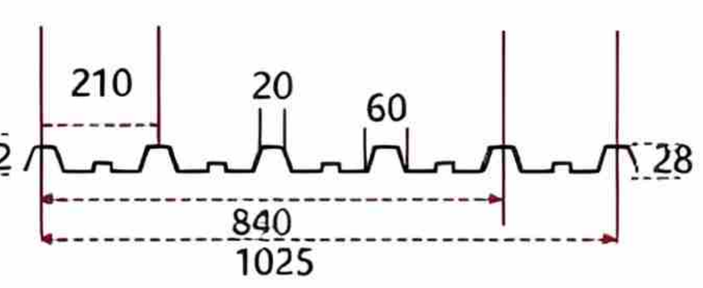

NX828



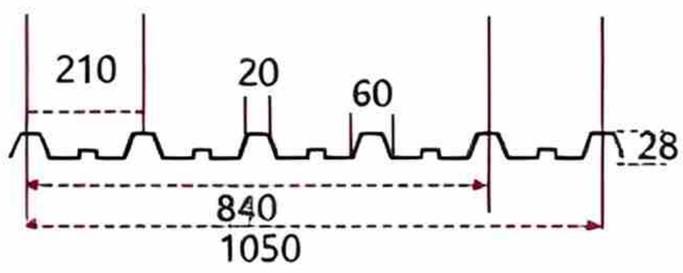

NX14-65-836



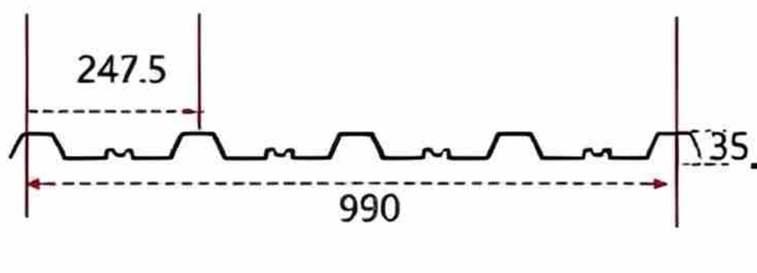

NX12-100-900B



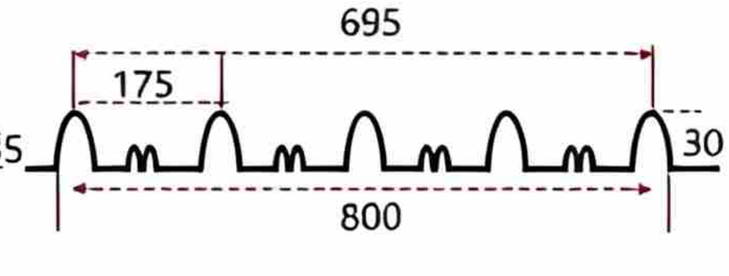

NX25-210-840(1025)




NX25-210-840(1050)




NX35-247.5-990




NX30-175-695

## Product Selection

# Color reference for corrugated board

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ral 1000 | ral 1001 | ral 1002 | ral 1003 | ral 1004 | ral 1005 | ral 1006 | ral 1007 |
| ral 1011 | ral 1012 | ral 1013 | ral 1014 | ral 1015 | ral 1016 | ral 1017 | ral 1018 |
| ral 1019 | ral 1020 | ral 1021 | ral 1023 | ral 1024 | ral 1027 | ral 1028 | ral 1032 |
| ral 1033 | ral 1034 | ral 2000 | ral 2001 | ral 2002 | ral 2003 | ral 2004 | ral 2008 |
| ral 2009 | ral 2010 | ral 2011 | ral 2012 | ral 3000 | ral 3001 | ral 3002 | ral 3003 |
| ral 3004 | ral 3005 | ral 3007 | ral 3009 | ral 3011 | ral 3012 | ral 3013 | ral 3014 |
| ral 3015 | ral 3016 | ral 3017 | ral 3018 | ral 3020 | ral 3022 | ral 3027 | ral 3031 |
| ral 4001 | ral 4002 | ral 4003 | ral 4004 | ral 4005 | ral 4006 | ral 4007 | ral 4008 |
| ral 4009 | ral 5000 | ral 5001 | ral 5002 | ral 5003 | ral 5004 | ral 5005 | ral 5007 |
| ral 5008 | ral 5009 | ral 5010 | ral 5011 | ral 5012 | ral 5013 | ral 5014 | ral 5015 |
| ral 5017 | ral 5018 | ral 5019 | ral 5020 | ral 5021 | ral 5022 | ral 5023 | ral 5024 |
| ral 6000 | ral 6001 | ral 6002 | ral 6003 | ral 6004 | ral 6005 | ral 6006 | ral 6007 |
| ral 6008 | ral 6009 | ral 6010 | ral 6011 | ral 6012 | ral 6013 | ral 6014 | ral 6015 |
| ral 6016 | ral 6017 | ral 6018 | ral 6019 | ral 6020 | ral 6021 | ral 6022 | ral 6024 |
| ral 6025 | ral 6028 | ral 6027 | ral 6028 | ral 6029 | ral 6032 | ral 6033 | ral 6034 |
| ral 7000 | ral 7001 | ral 7001 | ral 7002 | ral 7003 | ral 7004 | ral 7005 | ral 7006 |
| ral 7008 | ral 7009 | ral 7010 | ral 7011 | ral 7012 | ral 7013 | ral 7015 | ral 7016 |
| ral 7021 | ral 7022 | ral 7023 | ral 7024 | ral 7026 | ral 7030 | ral 7031 | ral 7032 |
| ral 7033 | ral 7034 | ral 7035 | ral 7036 | ral 7037 | ral 7038 | ral 7039 | ral 7040 |
| ral 7002 | ral 7043 | ral 7044 | ral 8000 | ral 8001 | ral 8002 | ral 8003 | ral 8004 |
| ral 8007 | ral 8008 | ral 8011 | ral 8012 | ral 8014 | ral 8015 | ral 8018 | ral 8017 |
| ral 8019 | ral 8022 | ral 8023 | ral 8024 | ral 8025 | ral 8028 | ral 9001 | ral 9002 |
| ral 9003 | ral 9004 | ral 9005 | ral 9010 | ral 9011 | ral 9016 | ral 9017 | ral 9018 |

## Detailed specifications

### 1.Comparison Table of Mechanical Performance National Standards for Mainstream Brands

| 牌号<br>Grade | 抗拉强度 Rm ≥ MPa<br>Tensile strength | 屈服强度(MPa)<br>Yield strength | 断后伸长率(%)<br>Post fracture elongation | 核心用途<br>Core Purpose |
|---|---|---|---|---|
| 1060-O<br>soft state | 75 ~ 110 | ≥30 | ≥35 | 深度拉伸、复杂折弯、散热件<br>Deep stretching, complex bending, heat dissipation components |
| 1060-H18<br>hard state | ≥130 | ≥110 | ≥5 | 装饰板、平整面板、固定结构<br>Decorative panel, flat panel, fixed structure |
| 3003-H14 | 140 ~ 180 | ≥115 | ≥12 | 防锈、户外幕墙、防腐设备<br>Rust prevention, outdoor curtain wall, anti-corrosion equipment |
| 5052-H32 | 190 ~ 240 | ≥130 | ≥18 | 汽车钣金、承重结构、折弯件<br>Automotive sheet metal, load-bearing structures, bending parts |
| 6061-T6 | ≥310 | ≥276 | ≥10 | 精密机械、模具、工装、结构板<br>Precision machinery, molds, fixtures, structural plates |
| 7075-T651 | ≥572 | ≥505 | ≥8 | 高强度模具、航空精密结构<br>High strength molds, aerospace precision structures |

### 2.Comprehensive Performance Explanation

♦ Lightweight structural performance: Aluminum density is much lower than steel, significantly reducing equipment weight and load, making it the preferred structural material for rail transit, new energy vehicles, and lightweight equipment.

♦ Excellent corrosion and weather resistance: natural oxide film self-protection, not afraid of rain, moisture, and atmospheric oxidation, outdoor engineering service life can reach more than 20 years.

♦ Excellent cold and hot processing performance: with complete soft and hard states, it can meet various processes such as stretching, bending, rolling, milling, and welding, and has no edge breakage or cracking during processing.

♦ Uniform and stable heat dissipation and conductivity: high thermal conductivity, no dead corners in heat dissipation, uniform temperature rise, widely used in heat sinks, heat exchange equipment, and lightweight conductive components.

♦ Excellent low-temperature performance: no low-temperature brittleness, no reduction in toughness and strength in sub zero environments, suitable for outdoor and low-temperature equipment working conditions in northern China.

# ALUMINUM COIL & STRIP

## Product Description

### ♦ ALUMINUM COIL








**Description- Aluminum Coil :**

**Standard**: GB/T 3880、ASTM B209、EN 485、JIS H4000、GOST 21631、ISO 6361

**Grade**:

1 Series: 1050, 1060, 1070, 1100, 1235 АД00、АД0

3 Series: 3003, 3004, 3005, 3105 АМц、АМг3

5 Series: 5052, 5083, 5086, 5754 АМг2

6 Series: 6061, 6063 АД33

**Conventional standard size**:

Thickness mm: 0.2, 0.3, 0.4, 0.5, 0.6, 0.8, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0

Standard roll width: 500, 800, 1000, 1200, 1220, 1500, 2000mm

Standard roll weight: 500kg, 1000kg, 2000kg, 3000kg, 5000kg

Thickness tolerance ± 0.02~0.05mm; roll width tolerance ± 2mm; standard inner hole 300/400/500/600mm; maximum single roll weight 5 tons

**Processing Status**: O、H12、H14、H16、H18、H24、H32、H34

**Functional classification**: Conductive substrate roll, stamping forming roll, anti-corrosion marine roll, anodizing special substrate roll.

**Surface process**: Cold rolled bright, passivated rust proof, single-sided/double-sided coating, polished mirror substrate.

**Application**:

Deep processed substrates: corrugated tiles, patterned plates, aluminum strip slitting mother rolls, stamping hardware raw materials.

Heat dissipation and exchange: continuous stamping of aluminum coils for radiators, substrate for air conditioning heat exchangers.

Packaging industry: equipment shell stamping substrate, metal packaging barrel raw materials.

Electrical conductivity: busbar slitting narrowband busbar coil, new energy conductive substrate.

## Product Description

# COLOR COATED ALUMINUM COIL





## Description- Color Coated Aluminum Coil :

**Standard**: GB/T 17748-2019、ASTM B921、EN 10169、GOST 21631、ISO 6361

**Grade**:

1 Series: 1060, 1050 АД0

3 Series: 3003, 3004 АМц

5 Series: 5052 АМг2

**Conventional standard size**:

Thickness 0.2~3.0mm; Roll width 500~1500mm; Roll weight 500~5000kg.

Coating shaping models: PE Polyester color coated roll, PVDF Fluorocarbon fluorocarbon weather resistant roll, SMP silicon modified polyester roll, HDP high weather resistant polyester roll.

Color and model: white gray, sea blue, crimson, dark gray, imitation wood grain, imitation stone grain, metallic gray.

The substrate thickness is 0.2~3.0mm, the width is 800/1000/1220/1500mm, the maximum weight per roll is 5 tons, and the standard inner hole is 500mm.

**Processing Status**: H14, H24 semi hard (coating specific stable state)

**Weather resistance grade**: PE indoor 5 years weather resistance, SMP outdoor 10 years, HDP outdoor 15 years, PVDF fluorocarbon 20-30 years island high weather resistance.

**Surface process**: Defatting pretreatment → Chromation passivation → Primer baking → Topcoat coating → Film protection; Coating thickness: PE20~25 μ m, PVDF 25~35 μ m.

**Application**:

Building enclosure: factory colored aluminum corrugated tiles, exterior wall decorative hanging panels, metal ceiling.

Cold chain equipment: cold storage insulation outer panel, container color coated aluminum outer skin.

Household appliance shell: metal shell stamping substrate for refrigerators, air conditioners, washing machines.

Decoration engineering: imitation wood grain indoor decorative panels, outdoor billboard substrates.

## Product Description

# ALUMINUM STRIP





## Description- Aluminum Strip :

**Standard**: GB/T 3880、ASTM B209、EN 485、GOST 21631、ISO 6361

**Grade**:

1 Series: 1050, 1060, 1070, 1100 АД00、АД0

3 Series: 3003, 3004, 3005 АМц

5 Series: 5052, 5083 АМг2

6 Series: 6061, 6063 АД33

**Conventional standard size**:

Thickness 0.1~3.0mm; cutting width 5mm, 10, 20, 30, 50, 80, 100, 150, 200, 300, 500mm

Thickness tolerance ± 0.01mm (precision narrow band); The minimum cutting width is 5mm, with a width tolerance of ± 0.1mm; the roll weight is 50-2000kg, and the inner hole is 300/400mm.

**Processing Status**: O Soft state (battery soft connection), H14/H24 Semi hard (stamped seal), H18 Full hard (shielded conductive tape).

**Surface process**: Bright cold-rolled, passivated anti rust, single-sided and double-sided coated, anodized, nickel plated composite aluminum strip.

**Application**:

New energy lithium batteries: power battery soft connection aluminum strip, battery shell stamping narrow strip.

Electrical shielding: cable aluminum shielding tape, busbar slitting narrow strip, grounding conductive tape.

Sealing hardware: radiator sealing gasket, pipeline sealing aluminum strip.

Decorative hardware: door and window decorative pressure strips, stamped narrow strips for lamp housings.

## Product Selection

# Color reference for corrugated board

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ral 1000 | ral 1001 | ral 1002 | ral 1003 | ral 1004 | ral 1005 | ral 1006 | ral 1007 |
| ral 1011 | ral 1012 | ral 1013 | ral 1014 | ral 1015 | ral 1016 | ral 1017 | ral 1018 |
| ral 1019 | ral 1020 | ral 1021 | ral 1023 | ral 1024 | ral 1027 | ral 1028 | ral 1032 |
| ral 1033 | ral 1034 | ral 2000 | ral 2001 | ral 2002 | ral 2003 | ral 2004 | ral 2008 |
| ral 2009 | ral 2010 | ral 2011 | ral 2012 | ral 3000 | ral 3001 | ral 3002 | ral 3003 |
| ral 3004 | ral 3005 | ral 3007 | ral 3009 | ral 3011 | ral 3012 | ral 3013 | ral 3014 |
| ral 3015 | ral 3016 | ral 3017 | ral 3018 | ral 3020 | ral 3022 | ral 3027 | ral 3031 |
| ral 4001 | ral 4002 | ral 4003 | ral 4004 | ral 4005 | ral 4006 | ral 4007 | ral 4008 |
| ral 4009 | ral 5000 | ral 5001 | ral 5002 | ral 5003 | ral 5004 | ral 5005 | ral 5007 |
| ral 5008 | ral 5009 | ral 5010 | ral 5011 | ral 5012 | ral 5013 | ral 5014 | ral 5015 |
| ral 5017 | ral 5018 | ral 5019 | ral 5020 | ral 5021 | ral 5022 | ral 5023 | ral 5024 |
| ral 6000 | ral 6001 | ral 6002 | ral 6003 | ral 6004 | ral 6005 | ral 6006 | ral 6007 |
| ral 6008 | ral 6009 | ral 6010 | ral 6011 | ral 6012 | ral 6013 | ral 6014 | ral 6015 |
| ral 6016 | ral 6017 | ral 6018 | ral 6019 | ral 6020 | ral 6021 | ral 6022 | ral 6024 |
| ral 6025 | ral 6028 | ral 6027 | ral 6028 | ral 6029 | ral 6032 | ral 6033 | ral 6034 |
| ral 7000 | ral 7001 | ral 7001 | ral 7002 | ral 7003 | ral 7004 | ral 7005 | ral 7006 |
| ral 7008 | ral 7009 | ral 7010 | ral 7011 | ral 7012 | ral 7013 | ral 7015 | ral 7016 |
| ral 7021 | ral 7022 | ral 7023 | ral 7024 | ral 7026 | ral 7030 | ral 7031 | ral 7032 |
| ral 7033 | ral 7034 | ral 7035 | ral 7036 | ral 7037 | ral 7038 | ral 7039 | ral 7040 |
| ral 7002 | ral 7043 | ral 7044 | ral 8000 | ral 8001 | ral 8002 | ral 8003 | ral 8004 |
| ral 8007 | ral 8008 | ral 8011 | ral 8012 | ral 8014 | ral 8015 | ral 8018 | ral 8017 |
| ral 8019 | ral 8022 | ral 8023 | ral 8024 | ral 8025 | ral 8028 | ral 9001 | ral 9002 |
| ral 9003 | ral 9004 | ral 9005 | ral 9010 | ral 9011 | ral 9016 | ral 9017 | ral 9018 |

## Detailed specifications

### 1.Comparison Table of Mechanical Performance National Standards for Mainstream Brands

| 牌号<br>Grade | 抗拉强度 Rm ≥ MPa<br>Tensile strength | 屈服强度(MPa)<br>Yield strength | 断后伸长率(%)<br>Post fracture elongation | 核心用途<br>Core Purpose |
|---|---|---|---|---|
| 1060-O soft state | 75 ~ 110 | ≥30 | ≥35 | 深度拉伸、复杂折弯、散热保温<br>Deep stretching, complex bending, heat dissipation and insulation |
| 1060-H14 | 110 ~ 135 | ≥90 | ≥10 | 通用装饰、保温外包、常规钣金<br>General decoration, insulation outsourcing, conventional sheet metal |
| 3003-H14 | 140 ~ 180 | ≥115 | ≥12 | 户外防腐、幕墙、罐体、潮湿工况<br>Outdoor anti-corrosion, curtain wall, tank body, humid working conditionsequipment |
| 3004-H18 | ≥190 | ≥170 | ≥6 | 彩涂基材、屋面系统、高强度装饰<br>Color coated substrate, roofing system, high-strength decoration |
| 5052-H32 | 190 ~ 240 | ≥130 | ≥18 | 汽车钣金、结构冲压、承重构件<br>Automotive sheet metal, structural stamping, load-bearing components |
| 6061-T6 | ≥310 | ≥276 | ≥10 | 精密机械、高强度结构加工<br>Precision machinery, high-strength structural processing |

### 2.Comprehensive Performance Explanation

♦ Excellent weather resistance and anti-corrosion performance: The natural oxide film continuously protects the substrate and is not afraid of rain, ultraviolet rays, and humid environments. The service life of outdoor engineering can reach more than 20 years, greatly reducing maintenance costs in the later stage.

♦ Continuous processing stability is strong: the internal stress of the coil is uniform, the plate shape is straight, and the high-speed opening, cutting, and stamping processes do not deviate, twist, or wave. The adaptability of automated production is extremely high.

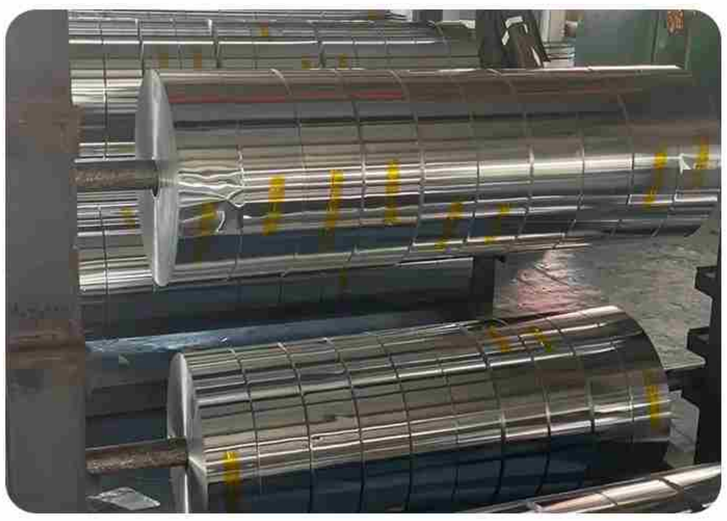
♦ Excellent low-temperature performance: no low-temperature brittleness, toughness in sub zero environments, strength not declining, suitable for outdoor and low-temperature equipment in the north, cold chain supporting projects.

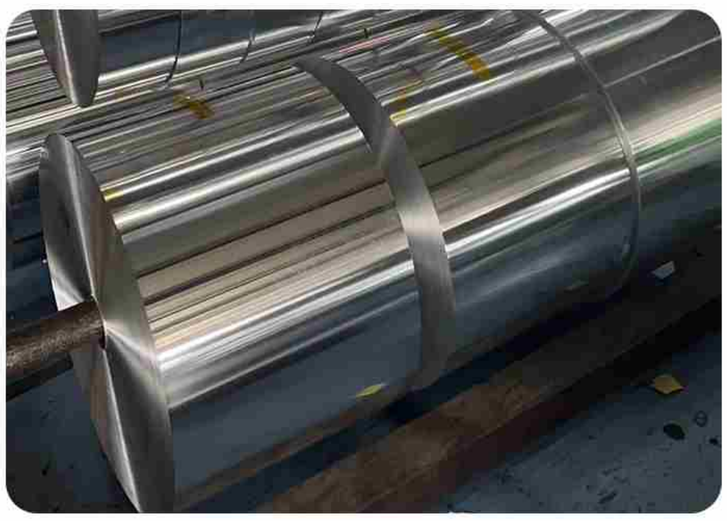
♦ Good welding and surface treatment properties: easy to weld, rivet, and bond, and compatible with various spraying, oxidation, and drawing processes. The finished product has a uniform appearance texture and a high pass rate.

# ALUMINUM FOIL

## Product Description

### ♦ INDUSTRIAL ALUMINUM FOIL





## Description- Industrial Aluminum Foil :

**Standard**: GB/T 3198-2020、ASTM B479、EN 546、JIS H4160、GOST 618 、ISO 11887

**Grade**:

1 series pure aluminum foil

1050、1060、1070、1100、1235、1090 、АД00 (1050)、АД0 (1060)、АД1 (1070)

**Conventional standard size**:

Thickness in micrometers (μm): 6, 7, 8, 9, 10, 12, 15, 20, 30, 40, 50, 80, 100, 150, 200 μm

Standard roll widths: 300, 500, 1000, 1250, 1500 mm

Thickness: 6~200μm, ultra-thin capacitor foil: 6~15μm; roll width: 300~1500mm; single roll length: 1000~10000m; roll weight: 100~1500kg.

**Processing Status**: O completely soft state

**Functional classification**:

Hydrophilic Grade Hydrophilic Air Conditioning Foil (Surface Hydrophilic Coating)

Shielding Grade shielded cable foil (high extension without pinholes)

Capacitor Grade electronic capacitor foil (high-purity 1090, low/high voltage grading)

Thermal Insulation Aluminum Foil (Regular 1060 Economy Type)

**Surface process**: Bright double-sided light, single-sided matte, hydrophilic coating (for air conditioning foil), passivation rust proof, single-sided conductive coating (for capacitor foil).

**Application**:

HVAC: Hydrophilic fin aluminum foil, heat exchanger heat dissipation foil (a global demand in the air conditioning industry).

Power cables: communication/power cable shielding aluminum foil, fireproof cable wrapping foil.

Electronic components: electrolytic capacitors, high-voltage and low-voltage anode aluminum foil, lithium battery current collector foil.

Thermal insulation: pipeline insulation aluminum foil, building roof insulation reflective foil, cold storage insulation coating.

## Product Description

# ♦ FOOD GRADE ALUMINUM FOIL





## Description- Food Grade Aluminum Foil :

**Standard**: GB/T 3198、GB 4806.9；ASTM B479、EN 546、FDA 21CFR175.300；GOST R 51074；ISO 11887

**Grade**: 1050、1060、1235、АД00、АД0

**Conventional standard size**:

Thickness 6, 8, 10, 12, 15, 20, 30 μ m; Roll width 300, 450, 600, 1000, 1250mm.

Finished product models: Household Food Foil household kitchen foil, Food Container Foil food box stamping aluminum foil, Baking Foil baking aluminum foil, Meat Packaging Foil fresh preservation aluminum foil.

Household tin foil small roll: width 300/450mm, length 5m/10m/20m, industrial packaging large roll width 1000/1250mm, length 5000-10000m.

**Processing Status**: O Soft state

**Food safety level**:

Grade A EU FDA/ROHS food contact grade

Grade B National Standard GB4806 Food Contact Grade

Grade C Russian GOST R 51074 Food Hygiene Grade

**Surface process**: Double sided bright oil-free degreasing, food grade passivation coating, no heavy metal treatment, odorless clean surface

**Application**:

Civilian kitchen: home baking tin foil, barbecue, food preservation packaging.

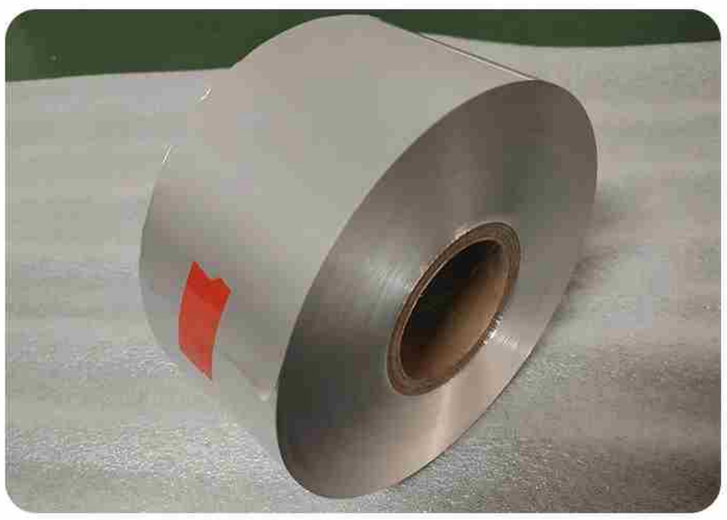
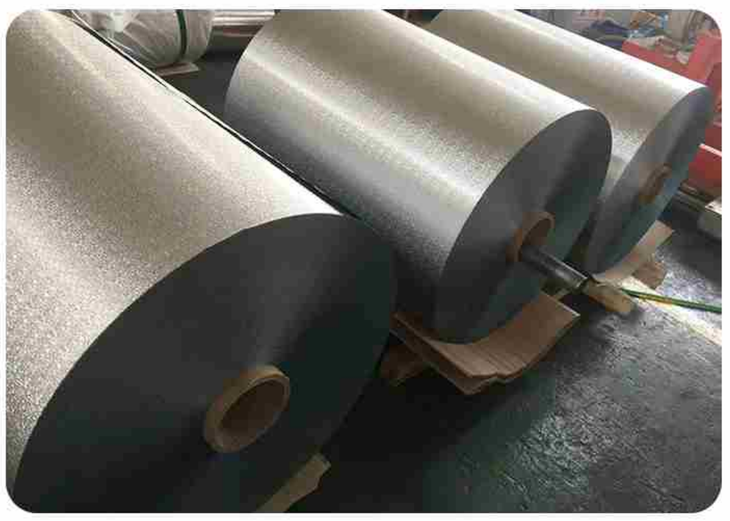
Food industry: disposable aluminum foil lunch box stamping substrate, cooked food vacuum packaging aluminum foil, chocolate candy composite packaging.

Catering industry: aluminum foil packaging for restaurant takeout, baking tray wrapping foil for ovens.

Thermal insulation: pipeline insulation aluminum foil, building roof insulation reflective foil, cold storage insulation coating.

## Product Description

# PHARMACEUTICAL FOIL

## Description- Pharmaceutical Foil :

**Standard**: GB/T 3198、YBB0015；ASTM B479、EN 546、EP/USP；GOST R 52340；ISO 11887

**Grade**: 1060、1235、АД00、АД0

**Conventional standard size**:

Thickness of 20, 25, 30, 35, 40 μ m; Standard roll width of 300, 400, 500, 800, 1000mm.

Subdivision models: PTP Blister Pharmaceutical F blister pharmaceutical aluminum foil, Capsule Packaging F capsule packaging foil, Prescription F suppository pharmaceutical aluminum foil, Child Resistance Safety F child safety pharmaceutical foil.

Thickness of 20-40 μ m, width of 300-1000mm, industrial mother roll length of 3000-8000m, packaged in a clean and dust-free workshop.

**Processing Status**: O Soft state

**Medical safety classification**:

EP European Pharmacopoeia Grade

USP United States Pharmacopeia Grade

GB Chinese Pharmacopoeia Grade

GOST Russian Pharmacopoeia Grade

**Surface process**: Degreasing and cleaning, pharmaceutical grade passivation, single-sided heat sealed PE coating, printing ink adhesion coating, moisture-proof composite film bonding.

**Application**:

Drug packaging: PTP blister packaging for pill capsules, aluminum-plastic composite film for granular drugs, sealed packaging for suppositories.

Medical devices: Aseptic medical devices with moisture-proof barrier packaging.

Health product packaging: moisture-proof sealing foil for vitamins and dietary supplements.

## Detailed specifications

### 1.Comparison Table of Mechanical Performance National Standards for Mainstream Brands

| 牌号<br>Grade | 抗拉强度 Rm ≥ MPa<br>Tensile strength | 屈服强度(MPa)<br>Yield strength | 断后伸长率(%)<br>Post fracture elongation | 核心用途<br>Core Purpose |
|---|---|---|---|---|
| 8011-O<br>soft state | 80 ~ 110 | ⩾30 | ⩾18 | 食品医药包装、家用箔、复合基材<br>Food and pharmaceutical packaging, household foil, composite substrates |
| 1235-O<br>soft state | 75 ~ 105 | ⩾25 | ⩾20 | 软包复合、电缆箔、隔热屏蔽<br>Soft package composite, cable foil, thermal insulation shielding |
| 3003-H24 | 140 ~ 180 | ⩾120 | ⩾10 | 餐盒容器、冲压成型、防腐衬箔<br>Meal box container, stamping forming, anti-corrosion lining foil |
| 1060-H18 | ⩾130 | ⩾110 | ⩾5 | 电子屏蔽、散热衬片、工业固定箔<br>Electronic shielding, heat dissipation lining, industrial fixed foil |

### 2.Mainstream brand chemical composition parameters

| 牌号<br>Grade | 铝(Al)⩾ | 硅(Si)⩽ | 铁(Fe)⩽ | 锰(Mn) | 铜(Cu)⩽ | 杂质总和⩽<br>Total impurities |
|---|---|---|---|---|---|---|
| 1060 | 99.60% | 0.25% | 0.35% | — | 0.05% | 0.40% |
| 1235 | 99.35% | 0.06% | 0.65% | — | 0.05% | 0.65% |
| 3003 | margin | 0.60% | 0.70% | 1.00-1.50% | 0.20% | 0.15% |
| 8011 | margin | 0.50-0.90% | 0.60-1.00% | ⩽0.20% | 0.10% | 0.15% |
| 8079 | margin | 0.05-0.30% | 0.70-1.30% | ⩽0.10% | 0.05% | 0.15% |

Product Description

# ALUMINUM TUBE & PIPE

## ALUMINUM ROUND TUBE





### Description- Aluminum Round Tube :

**Standard**: GB/T 4436-2019、ASTM B210、ASTM B429、EN 754、JIS H4080、GOST 18475、ISO 6362

**Grade**: 1 series pure aluminum tube: 1050, 1060, 1070 АД00、АД0

3 Series Anti rust Aluminum Manganese: 3003, 3004 АМц

5 Series Aluminum Magnesium Corrosion Protection: 5052, 5083, 5086 АМг2、АМг3

6-series aluminum magnesium silicon structure: 6061, 6063, 6082 АД31、АД33

**Conventional standard size**: Metric outer diameter mm：6、8、10、12、14、16、18、20、22、25、28、30、32、35、40、50、60、76、89、100、120、150、200、250、300

wall thickness mm：0.5、0.8、1.0、1.2、1.5、2.0、2.5、3.0、4.0、5.0、6.0、8.0、10mm

Standard sizing: 3m, 4m, 6m straight pipes;

Coil 15/25/50m thin-walled air conditioning aluminum tube

Outer diameter of 6-300mm, wall thickness of 0.5-10mm; straight pipe standard of 6m, thin-walled coil of 25/50m; capillary tube outer diameter of 3-10mm, wall thickness of 0.2-0.8mm.

**Segmented models**: Seamless Round Tube、Welded Extruded Tube、Air Condition Capillary Tube、Marine Grade Pipe、Hydraulic Tube

**Classification of Processing Status**: O Soft state coil (air conditioning capillary tube bending), T4, T6 heat treated hard state (6-series high-pressure structural tube), H24 semi-rigid (3/5-series fluid straight tube).

**Surface process**: Bright extrusion of natural color, anodizing, fluorocarbon spraying, degreasing and cleaning (air conditioning pipeline), passivation and rust prevention.

**Application**:

HVAC refrigeration: air conditioning refrigerant aluminum coil, heat exchanger round tube, cold storage refrigeration pipeline.

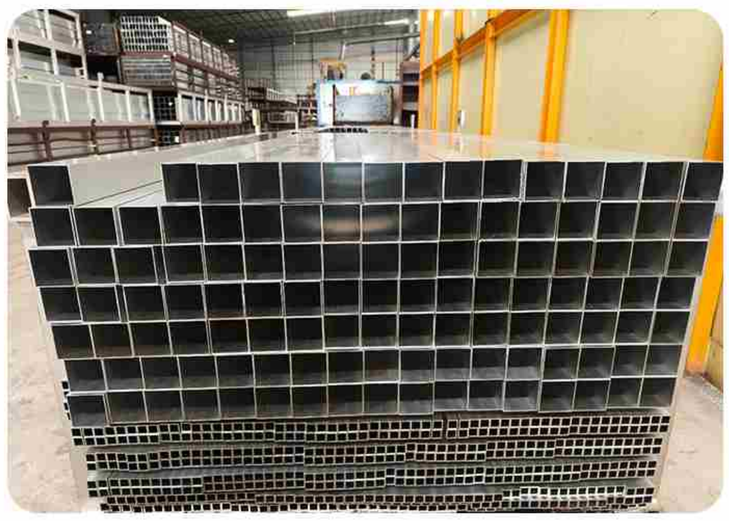
Hydraulic fluid: 6061-T6 high-pressure hydraulic oil pipe, engineering machinery fluid conveying pipeline.

Ship ocean: 5083 seawater cooling pipeline, ship water supply and drainage corrosion-resistant pipeline.

Mechanical structure: Equipment rack round tube, fitness equipment, transportation vehicle frame tube.

## Product Description

# ALUMINUM SQUARE TUBE





## Description- Aluminum Square Tube :

**Standard**: GB/T 4436、ASTM B221、EN 755、JIS H4100、GOST 18475、ISO 6362

**Grade**:

1 Series: 1060 АД0

3 Series: 3003 АМц

5 Series: 5052, 5083 АМг2

6 Series: 6063-T5, 6061-T6, 6082-T6, АД 31, АД 33

**Conventional standard size**:

Square section specifications (side length mm): 10 × 10, 15 × 15, 20 × 20, 25 × 25, 30 × 30, 40 × 40, 50 × 50, 60 × 60, 80 × 80, 100 × 100, 120 × 120, 150 × 150, 200 × 200

Rectangular flat square tube: 20 × 40, 30 × 50, 40 × 60, 50 × 100, 80 × 120, 100 × 150

Wall thickness mm: 0.8, 1.0, 1.2, 1.5, 2.0, 2.5, 3.0, 4.0, 5.0, 6.0

Standard sizing: 3m, 4m, 6m

Square 10 × 10~200 × 200, rectangle 20 × 40~100 × 150; Wall thickness of 0.8~6mm; standard 6-meter fixed length, can be cut to any length

**Segmented models**: Decorative Square Tube、Industrial Equipment Square Tube、Window Frame Square Tube、Marine Alloy Square Tube

**Heat treatment grade**: T5 air-cooled aging (door and window decoration, high cost-effectiveness), T6 water-cooled aging (heavy-duty high-strength rack).

**Surface process**: Squeezing gloss, anodizing (champagne/black/natural color), fluorocarbon spraying, wood grain transfer printing, frosted drawing.

**Application**:

Building curtain wall: decorative aluminum square partitions for exterior walls, suspended ceiling grilles, interior decorative shapes.

Door and window engineering: aluminum alloy door and window frames, square tube main structure of sunroom.

Industrial equipment: automation equipment rack, assembly line support, protective fence square tube.

Transportation equipment: electric vehicle frames, fitness equipment, lightweight equipment frames.

## Detailed specifications

### 1.Comparison Table of Mechanical Performance National Standards for Mainstream Brands

| 牌号<br>Grade | 抗拉强度 Rm ≥ MPa<br>Tensile strength | 屈服强度(MPa)<br>Yield strength | 断后伸长率(%)<br>Post fracture elongation | 核心用途<br>Core Purpose |
|---|---|---|---|---|
| 1060-O | 75 ~ 110 | ≥30 | ≥35 | 折弯成型、换热管路、软态加工<br>Bending forming, heat exchange pipeline, soft processing |
| 3003-T5 | 130 ~ 170 | ≥110 | ≥14 | 防锈管路、户外流体输送<br>Rust resistant pipelines, outdoor fluid transportation |
| 5052-O | 190 ~ 240 | ≥130 | ≥18 | 结构承重、折弯管件、机械框架<br>Structural load-bearing, bending fittings, mechanical frame |
| 6063-T5 | ≥160 | ≥110 | ≥12 | 装饰框架、外观型材、常规结构<br>Decorative frame, exterior profile, conventional structure bending parts |
| 6061-T6 | ≥310 | ≥276 | ≥10 | 精密机械、高压管路、高强度结构<br>Precision machinery, high-pressure pipelines, high-strength structures |
| 7075-T6 | ≥572 | ≥505 | ≥8 | 航空工装、超硬结构、高端模具管材<br>Aviation tooling, superhard structures, high-end mold pipes |

### 2.Dimensional accuracy and pressure performance description

♦ Dimensional tolerance standards: outer diameter tolerance ± 0.05mm to ± 0.1mm, wall thickness tolerance ± 0.1mm, length tolerance ± 2mm, straightness ≤ 0.5mm/m, precise roundness, suitable for precision assembly.

♦ Seamless pipe pressure bearing capacity: The pipe wall structure is uniform without welds, and the pressure resistance strength is high, which can meet the long-term stable transportation of low-pressure and high-pressure fluids in industry without leakage hazards.

♦ Processing stability: The pipe undergoes stress relief treatment, and is not easily deformed or cracked after cutting, turning, and bending. The precision machining yield is high.

# ALUMINUM BAR & ROD

## Product Description

### ♦ ALUMINUM ROUND BAR





**Description- Aluminum Round Bar :**

**Standard**: GB/T 3190-2022、ASTM B221、EN 755、JIS H4100、GOST 21488、ISO 6362

**Grade**:

1. Pure aluminum rods: 1050, 1060, 1070, AD00, AD0

3 Series Easy-to-Cut Rust-Resistant: 3003, 3004, AMc

Aluminum-magnesium corrosion-resistant series: 5052, 5083, 5086, AMg2

6 Series Structural Processing Mainstays: 6061-T6, 6063-T5, 6082-T6, AD31, AD33

7 Series Ultra-High Strength Aerospace Alloys: 7075-T6, 7050-T74, B95

**Conventional standard size**:

Diameter mm: 5, 6, 8, 10, 12, 15, 20, 25, 30, 40, 50, 60, 80, 100, 120, 150, 180, 200, 250, 300

Standard fixed lengths: 3m, 4m, 6m

Diameter: 5~300mm, tolerance: ±0.03~0.2mm; Standard length: 6 meters, custom turning and precision machining available

**Segmented models**: Extruded Solid Round Bar 、Free Machining Aluminum Bar、Marine Grade Round Bar、Aviation High Strength Bar

**Classification of Processing Status**: O Soft state, T5, T6, T74 age hardening;

**Cutting grade**: Ordinary cutting grade, high-speed easy cutting special aluminum rod

**Surface process**: Squeezing black skin blank, bright drawing, turning precision grinding, anodizing, rust prevention and passivation.

**Application**:

Mechanical processing: CNC lathe parts, mold inserts, automation equipment shaft blanks.

Electrical conductivity: 1070 high-purity aluminum conductive rod, grounding busbar processing material.

Ship Ocean: 5083 Ship Machinery Parts Processing Round Rod.

Aviation and military industry: 7075 high-strength aviation structural components, military equipment processing blanks.

## Product Description

# ALUMINUM SQUARE BAR







## Description- Aluminum Square Bar :

**Standard**: GB/T 3190、ASTM B221、EN 755、GOST 21488、ISO 6362

**Grade**:

1 Series: 1060 АД0

3 Series: 3003 АМц

5 Series: 5052 АМг2

6 Series: 6063-T5, 6061-T6, 6082-T6, АД 31, АД 33

**Conventional standard size**:

Sectional side length mm: 10, 12, 15, 20, 25, 30, 40, 50, 60, 80, 100, 120, 150

Wall thickness solid without hollow, standard size 6m

Side length 10-150mm, tolerance ± 0.05mm, standard 6-meter fixed length, can cut short materials as needed.

**Segmented models**: Machining Square Bar、Decorative Square Bar、Equipment Structural Square Bar

**Heat treatment classification**: T5 air-cooled, T6 water-cooled aging hardening

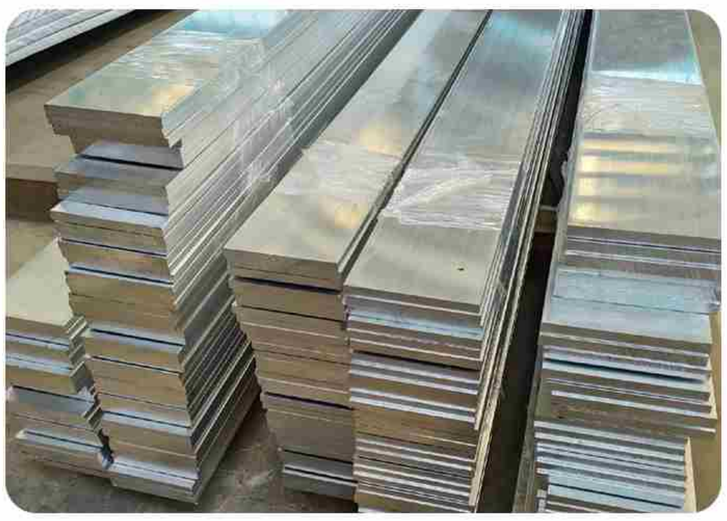
**Surface process**: Squeeze natural color, bright drawing, brushed matte, anodized.

**Application**:

Mechanical hardware processing, decorative lines, equipment positioning sliders, mold pads, fixture blanks.

## Product Description

# ALUMINUM FLAT BAR





## Description- Aluminum Flat Bar :

**Standard**: GB/T 3190、GB/T 5585、ASTM B221、EN 755、GOST 21488、IEC 60865、ISO 6362

**Grade**:

1 series high-purity conductive aluminum bars: 1050, 1060, 1070 АД00、АД0

3 Series: 3003 АМц

5 Series: 5052 АМг2

6 Series: 6061-T6, 6063-T5, АД 31, АД 33

**Conventional standard size**:

Thickness x Width Specifications (mm): 3 × 20, 4 × 30, 5 × 40, 6 × 50, 8 × 60, 10 × 80, 12 × 100, 15 × 120, 20 × 150, 30 × 200

Standard fixed length 3m/6m

Thickness of 3-30mm, width of 20-200mm, length of 6-meter standard; Conductive aluminum bars can be customized for punching and bending finished products.

**Segmented models**: Electrical Busbar Flat、Structural Machining Grade、Decorative Surface Grade

**Surface process**: Bright extrusion, acid pickling and passivation, anodizing, tin plated conductive aluminum busbar, film protection.

**Application**:

Electrical distribution: aluminum busbars for high and low voltage distribution cabinets, conductive bars for photovoltaic inverters, and aluminum busbars for new energy storage busbars.

Mechanical processing: equipment wear-resistant lining strip, mold pad, heat dissipation substrate flat aluminum.

Decorative buildings: curtain wall decorative pressure strips, indoor ceiling decorative flat aluminum lines.

## Detailed specifications

### 1.Mechanical properties - 1 series (pure aluminum)

| 牌号 Grade | 直径 d (mm) Diameter | 抗拉强度 Rm ≥ MPa Tensile strength | 屈服强度(MPa) Yield strength | 伸长率(%) Elongation | 硬度 HBW Hardness |
|---|---|---|---|---|---|
| 1050A-O | ≤150 | 60 ~ 95 | ≥20 | ≥25 | 20 |
| 1050A -H112 | ≤150 | ≥60 | ≥20 | ≥25 | 20 |
| 1035-O | ≤150 | 60 ~ 120 | — | ≥25 | — |
| 1035 -H112 | ≤150 | ≥60 | — | ≥25 | — |

### 2.Mechanical properties - 3 Series (Aluminum Manganese Alloy)

| 牌号 Grade | 直径 d (mm) Diameter | 抗拉强度 Rm ≥ MPa Tensile strength | 屈服强度(MPa) Yield strength | 伸长率(%) Elongation | 硬度 HBW Hardness |
|---|---|---|---|---|---|
| 3003-O | ≤250 | 95 ~ 135 | ≥35 | ≥25 | 30 |
| 3003 -H112 | ≤250 | ≥95 | ≥35 | ≥25 | 30 |
| 3A21-O | ≤150 | ≤165 | — | ≥20 | — |
| 3A21 -H112 | ≤150 | ≥90 | — | ≥20 | — |

### 3.Mechanical properties - 5 Series (Aluminum Magnesium Alloy)

| 牌号 Grade | 直径 d (mm) Diameter | 抗拉强度 Rm ≥ MPa Tensile strength | 屈服强度(MPa) Yield strength | 伸长率(%) Elongation | 硬度 HBW Hardness |
|---|---|---|---|---|---|
| 5052-O | ≤250 | 170 ~ 230 | ≥70 | ≥17 | 45 |
| 5052 -H112 | ≤250 | ≥170 | ≥70 | ≥15 | 47 |
| 5083-O | ≤200 | 270 ~ 350 | ≥110 | ≥12 | 70 |
| 5083 -H112 | ≤200 | ≥270 | ≥125 | ≥12 | 70 |
| 5A05 -O/H112 | ≤150 | ≥265 | ≥120 | ≥15 | — |
| 5A06 -O/H112 | ≤150 | ≥315 | ≥155 | ≥15 | — |
| 5A12 -O/H112 | ≤150 | ≥370 | ≥185 | ≥15 | — |

## Detailed specifications

### 4.Mechanical properties - 6 Series (Aluminum Magnesium Silicon Alloy)

| 牌号 Grade | 直径 d (mm) Diameter | 抗拉强度 Rm ≥ MPa Tensile strength | 屈服强度(MPa) Yield strength | 伸长率(%) Elongation | 硬度 HBW Hardness |
|---|---|---|---|---|---|
| 6060-T4 | ≤150 | ≥120 | ≥60 | ≥16 | 50 |
| 6060-T5 | ≤150 | ≥160 | ≥120 | ≥8 | 60 |
| 6060-T6 | ≤150 | ≥190 | ≥150 | ≥8 | 70 |
| 6061 -T4/T4510 /T4511 | ≤150 | ≥180 | ≥110 | ≥15 | 65 |
| 6061 -T6/T6510 /T6511 | ≤150 | ≥260 | ≥240 | ≥8 | 95 |
| 6063-O | ≤150 | ≤130 | — | ≥18 | 25 |
| 6063-T4 | ≤150 | ≥130 | ≥65 | ≥14 | 50 |
| 6063-T5 | ≤200 | ≥175 | ≥130 | ≥8 | 65 |
| 6063-T6 | ≤150 | ≥215 | ≥170 | ≥10 | 75 |
| 6063-T6 | 150 ~ 200 | ≥195 | ≥160 | ≥10 | 75 |
| 6082-T6 | ≤20 | ≥295 | ≥250 | ≥8 | 95 |
| 6082-T6 | 20 ~ 150 | ≥310 | ≥260 | ≥8 | 95 |
| 6082-T6 | 150 ~ 200 | ≥280 | ≥240 | ≥6 | 95 |
| 6082-T6 | 200 ~ 250 | ≥270 | ≥200 | ≥6 | 95 |
| 6005A-T6 | ≤25 | ≥270 | ≥225 | ≥10 | 90 |

## Detailed specifications

### 5.Mechanical properties - 7 Series (Aluminum Zinc Magnesium Alloy)

| 牌号 Grade | 直径 d (mm) Diameter | 抗拉强度 Rm ≥ MPa Tensile strength | 屈服强度(MPa) Yield strength | 伸长率(%) Elongation | 硬度 HBW Hardness |
|---|---|---|---|---|---|
| 7A04/7A09 -T1/T6 | ≤22 | ≥490 | ≥370 | ≥7 | — |
| 7A04/7A09 -T1/T6 | 22 ~ 150 | ≥530 | ≥400 | ≥6 | — |
| 7003-T5 | ≤250 | ≥310 | ≥260 | ≥10 | — |
| 7003-T6 | ≤50 | ≥350 | ≥290 | ≥10 | 110 |
| 7005-T6 | ≤50 | ≥350 | ≥290 | ≥10 | 110 |
| 7005-T6 | ≤150 | ≥510 | ≥434 | ≥7 | 150 |

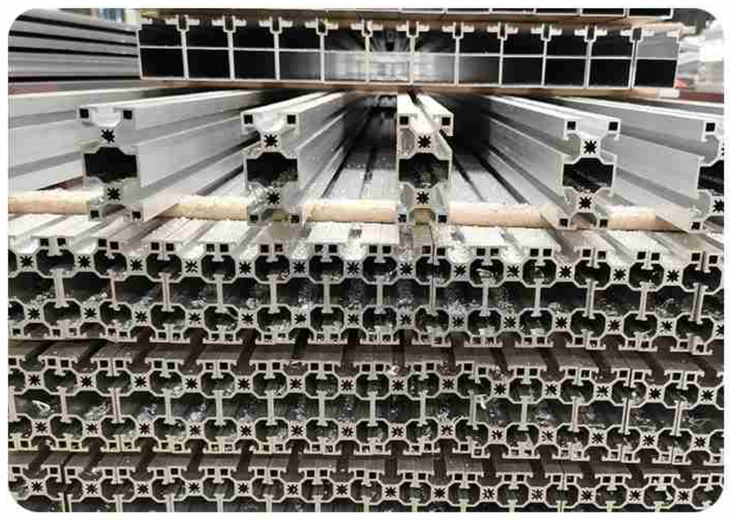
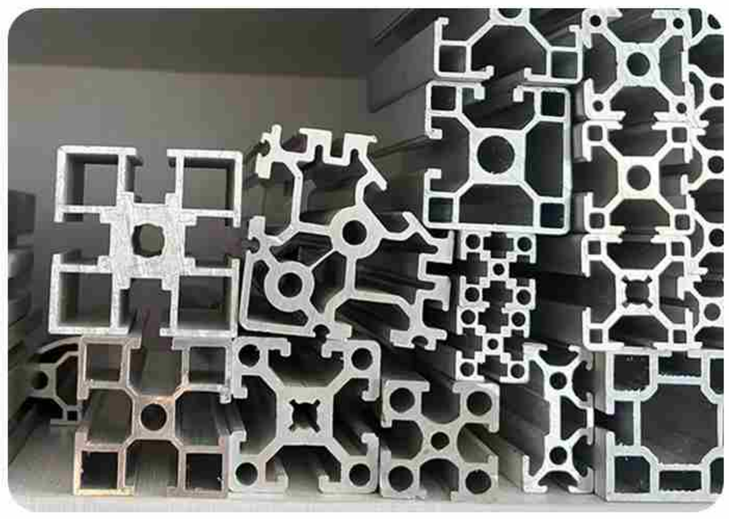
### 6.Typical physical performance reference values for commonly used grades

| 牌号 Grade | 密度 ($g/cm^3$) Density | 熔点范围（℃） Melting point range | 弹性模量（GPa） Elastic modulus | 热导率（W/(m·K)） Thermal conductivity | 电导率（%IACS） Conductivity |
|---|---|---|---|---|---|
| 1060 | 2.70 | 646 ~ 657 | 69 | ≈234 | 23.6 |
| 2A12-T4 | 2.78 | 502 ~ 638 | 72 | ≈121 | 22.9 |
| 3003 | 2.73 | 643 ~ 654 | 69 | ≈193 | 23.2 |
| 5052 | 2.68 | 607 ~ 649 | 70 | ≈138 | 23.8 |
| 5083 | 2.66 | 570 ~ 640 | 71 | ≈121 | 23.4 |
| 5A06 | 2.64 | — | ≈68 | ≈117 | — |
| 6061-T6 | 2.70 | 582 ~ 652 | 68.9 | ≈167 | 23.6 |
| 6063-T6 | 2.70 | 615 ~ 655 | 68.3 | ≈201 | 23.4 |
| 6082-T6 | 2.70 | 555 ~ 650 | 70 | ≈180 | 23.4 |
| 7075-T6 | 2.81 | 475 ~ 635 | 71.7 | ≈130 | 23.6 |
| 7A04-T6 | 2.85 | 477 ~ 638 | ≈71 | ≈154 | 23.1 |

# ALUMINUM PROFILE

## Product Description

### ALUMINUM EXTRUSION PROFILE

**Description- Aluminum Extrusion Profile :**

**Standard**: GB/T 5237.1~5237.6-2017、GB/T 6892；ASTM B221、EN 755、JIS H4100、GOST 22233、ISO 6362

**Grade**:

1 Series: 1060 АД0

3 Series: 3003 АМц

5 Series: 5052, 5083 АМг2

6 Series Global Squeezing Main Forces: 6063-T5, 6061-T6, 6082-T6, 6060, АД 31, АД 33

7 Series: 7075-T6, B105

**Conventional standard size**:

Customization of any cross-section is possible, with standard sizes of 3m, 4m, and 6m; Section width of 5-300mm, wall thickness of 0.8-12mm; minimum mold section of 5mm, maximum 300mm wide extrusion.

**Universal standardized category model**:

U Channel 、L Angle 、T Bar 、H Beam 、Z Profile  Custom Special Shape

**Surface process**: Squeezing sanding, glossy polishing, anodizing (multi-color), fluorocarbon spraying, wood grain transfer printing, electrophoretic coating, sandblasting matte.

**Application**:

Non standard equipment: Automated assembly line shaped racks, conveyor equipment guide rails, mechanical equipment shell profiles.

Building support: U-shaped decorative groove, L-shaped corner code, curtain wall supporting irregular connectors.

Lightweight Transportation: Special shaped Structural Components for Electric Vehicles and Ships.

Photovoltaic new energy: irregular extruded profiles for photovoltaic brackets, profiles for inverter castings.

## Product Description

# ALUMINUM WINDOW PROFILE





## Description- Aluminum Window Profile :

**Standard**: GB/T 5237、GB/T 8478；EN 14024、ASTM B221、JIS H4100、GOST 22233、ISO 6362

**Grade**:

6063-T5、6063-T6、АД31

**Conventional standard size**:

International common door and window system models: 50 series casement windows, 55 series bridge cut windows, 60 series sliding windows, 65 series insulated bridge cut windows, 70 system windows, 80 heavy-duty sliding doors, 90 bridge cut soundproof windows, Casement Window casement window profiles, Sliding Door sliding door profiles, Thermal Break Insulated Profile insulated aluminum profiles for bridge cut windows

50~90 series door and window sections, standard 6-meter fixed length, standard wall thickness 1.4mm, 1.6mm, 1.8mm, 2.0mm; Supporting insulation strip width 12/14/16/24mm

**Functional classification**:

Ordinary non broken bridge door and window profiles, Thermal Break broken bridge insulation energy-saving profiles (filled with PA66 nylon insulation strips).

**Wall thickness safety level**:

National standard 1.4mm basic grade, 1.6mm thickened household grade, 1.8/2.0mm engineering high-end grade.

**Surface process**: Anodizing, electrophoretic brightening, fluorocarbon spraying, wood grain transfer printing, sandblasting matte, powder electrostatic spraying (mainstream for building doors and windows).

**Application**:

Civil residential insulated windows with broken bridges, commercial housing casement windows/sliding doors, sunroom frames, office building curtain wall supporting doors and windows, insulated broken bridge doors and windows in high-altitude areas.

## Product Description

# INDUSTRIAL ALUMINUM PROFILE





## Description- Industrial Aluminum Profile :

**Standard**: GB/T 5237、EN 755 、ASTM B221、GOST 22233、ISO 6362

**Grade**:

6063-T5、6061-T6、АД31

**Conventional standard size**:

National standard industrial aluminum profiles

2020, 3030, 3060, 4040, 4080, 4545, 5050, 6060, 8080, 9090, 100100

European standard industrial aluminum profiles

20 × 20 European Standard, 30 × 30, 30 × 60, 40 × 40, 40 × 80, 45 × 45, 50 × 100, 80 × 80

Section 2020-1000mm, standard length 6m, standard groove width 6mm/8mm/10mm; Wall thickness of 1.2-4.0mm; complete set of accessories including corner fittings, foot cups, covers, etc

**Segmented models**:

Light Duty light frame profiles (20/30 series), Medium Duty medium assembly lines (40 series), Heavy Duty heavy-duty equipment frames (60/80/100 series), Conveyor Belt assembly line specific profiles, Machine Safety Guard protective fence profiles.

**Load classification**:

Lightweight load-bearing capacity ⩽ 500kg, medium load-bearing capacity 500~2000kg, heavy-duty load-bearing capacity 2000~5000kg; channel standard classification: 6mm slot light-weight, 8mm slot universal, 10mm slot heavy-duty.

**Surface process**: Natural color anodizing (silver white), black anodizing, sandblasting matte, electrostatic powder coating.

**Application**:

Automated assembly line: conveyor frame, assembly production line frame, robot protective fence.

Equipment protective cover: machine tool safety protection frame, instrument equipment frame, detection equipment rack.

Warehouse logistics: lightweight shelves, material turnover vehicle frames, workshop workbench supports.

New energy equipment: photovoltaic equipment rack, lithium battery production line assembly frame.

## Detailed specifications

### 1.Mechanical properties (minimum guaranteed values according to national standards)

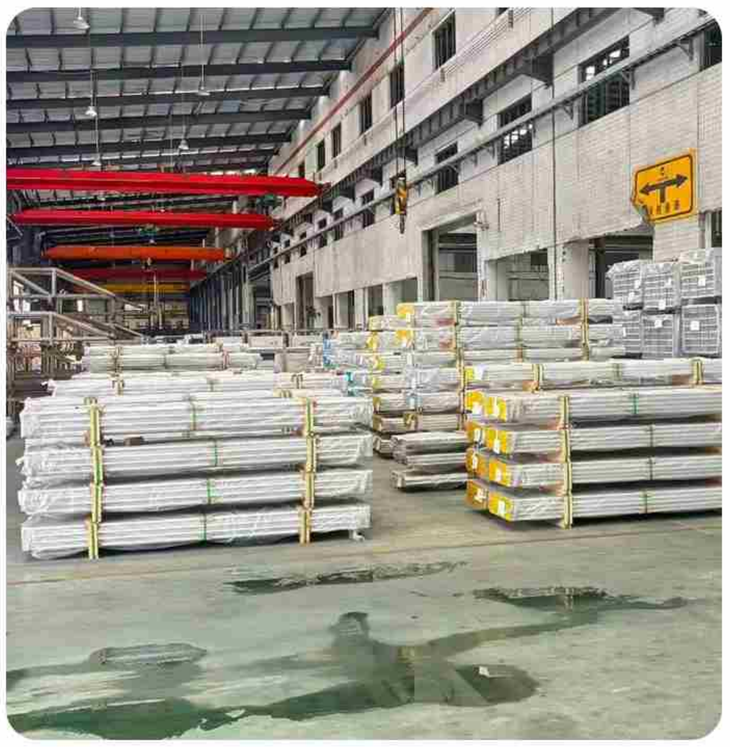
| 牌号 Grade | 供应状态 Supply condition | 抗拉强度 Rm ≥ MPa Tensile strength | 屈服强度(MPa) Yield strength | 伸长率(%) Elongation | 硬度 HBW Hardness |
|---|---|---|---|---|---|
| 1060 | H112 | 75 | 30 | 20 | 22 |
| 6063 | T5 | 175 | 130 | 8 | 65 |
| 6063 | T6 | 215 | 170 | 10 | 75 |
| 6061 | T6 | 260 | 240 | 8 | 95 |
| 6082 | T6 | 310 | 260 | 8 | 98 |
| 2A12 | T4 | 420 | 275 | 10 | 120 |
| 7075 | T6 | 510 | 434 | 7 | 150 |

### 2.Physical performance parameters (typical values at room temperature)

| 牌号 Grade | 密度 (g/cm³) Density | 线膨胀系数(×$10^{-6}$/℃) coefficient of linear expansion | 弹性模量（GPa） Elastic modulus | 热导率（W/(m·K)） Thermal conductivity | 电导率（%IACS） Conductivity |
|---|---|---|---|---|---|
| 1060 | 2.70 | 23.6 | 69.0 | 234 | 62 |
| 6063-T6 | 2.70 | 23.4 | 68.3 | 201 | 53 |
| 6061-T6 | 2.70 | 23.6 | 68.9 | 167 | 40 |
| 6082-T6 | 2.70 | 23.4 | 70.0 | 180 | 42 |
| 2A12-T4 | 2.78 | 22.9 | 72.0 | 121 | 30 |
| 7075-T6 | 2.81 | 23.6 | 71.7 | 130 | 33 |

## Packing and loading







Warehouse >>>> Packaging >>>> Loading

## Our Advantages



VERIFICATION OF CONFORMITY

S/N: 022079

No.: **ICR/VC/HM2603311**

| | |
|---|---|
| **Name and address of Applicant** | Shandong Xin wugang Steel Co., Ltd. Room 602, No. 9, South Nenjiang Road, Mount Taishan Road East, Jiangguantun Street, Liaocheng Economic and Technological Development Zone, Shandong Province, China |
| **Name and address of manufacturer:** | Shandong Xin wugang Steel Co., Ltd. Room 602, No. 9, South Nenjiang Road, Mount Taishan Road East, Jiangguantun Street, Liaocheng Economic and Technological Development Zone, Shandong Province, China |
| **Product name:** | Carbon Steel coil, Steel plate, Steel pipe, steel profile, steel wire, Steelbar, stainless steel pipe, Stainless steel coil /plate/profile, Steel Rail, Steel Ball |
| **Product types:** | Steel Plate: 0.14mm---500mm, Steel Coil: 0.14mm---25mm, Steel Pipe: 3mm-1020mm*0.3mm----200mm, Steel Wire: 0.15mm--16mm, Round bar: 5mm--600mm, H Beam: 91mm*100mm---1138mm*410mm, I Beam: 76mm*59mm----778mm*269mm, Angle steel: 19mm*19mm---305mm*305mm, Channel: 25*12mm-----457mm*107mm, Steel Ball: 1mm--180mm, Steel Rail: 9---50kg,QU70-120, P65 R65 54E1... |
| **Product trademark:** | n/a |

Verification was carried within following scope:

Information on the Declaration of Conformity:

| Result: | Legislation: | Standard: |
|---|---|---|
| ✓ | CPR [(EU) 305/2011] | EN 10210-1:2006<br>EN 10210-2:2019<br>EN 10219-1:2006<br>EN 10219-2:2019<br>EN 10025-1:2004<br>EN 10025-2:2019 |

The assessment process has been carried out in accordance with individual rules and conditions agreed with the applicant. Evaluation has been carried out in accordance with:

| | |
|---|---|
| **Test report:** | MTZ20260318SCPR |
| **Tests conducted by:** | Shandong Xin wugang Steel Co., LTD |
| **Issue date:** | 25.03.2026 |
| **Expiration date:** | 24.03.2031 |

**Remarks:**
- VoC was issued on voluntary basis and does not imply meeting all essential requirements listed in Declaration of Conformity.
- For introducing this product on European market may be needed EC/EU-type examination conducted by appropriate Notified Body.

ICR Co. Ltd.
www.icrqa.com
www.icrpolska.com
cert@icrqa.com

CEO, ICR Co., Ltd.

Edition: 5.1.1.8 of 06.03.2024

verification проверка verificación verification проверка verificación verification



中泰认证

QUALITY MANAGEMENT SYSTEM CERTIFICATION

Registration NO: 29022Q12696-10R0S

SHANDONG XIN WUGANG STEEL CO., LTD

Unified social credit code:91371500MA94JRBY2K

Registered Address:Room 602, No. 9, South Nenjiang Road, Mount Taishan Road, Liaocheng Economic and Technological Development Zone, Shandong Province

Office Address:Room 602, No. 9, South Nenjiang Road, Mount Taishan Road, Liaocheng Economic and Technological Development Zone, Shandong Province

Business Address:Room 602, No. 9, South Nenjiang Road, Mount Taishan Road, Liaocheng Economic and Technological Development Zone, Shandong Province

Established Quality Management System Accord With

GB/T 19001-2016 idt ISO9001:2015 standard

Through the certification scope is as follows

Sales of steel (including export)

The release date for the first time: 21-10-2022

The issuance date: 21-10-2022

Will be valid until: 20-10-2025

Issuer:

ZhongTai Union Certification Co., LTD.
Tel: +86 028-62521000 www.ztccc.cn

0036650



统一社会信用代码 91371500MA94JRBY2K

营业执照

名 称 山东鑫武钢铁有限公司

类 型 有限责任公司(自然人独资)

法定代表人 邹庆友

经营范围 一般项目：金属材料销售；金属材料制造；金属制品销售；金属结构销售；高性能有色金属及合金材料销售；新型金属功能材料销售；金属链条及其他金属制品销售；有色金属合金销售；高性能有色金属及合金材料销售；化工产品销售（不含许可类化工产品）；机械设备销售；金属制品研发；货物进出口；（除依法须经批准的项目外，凭营业执照依法自主开展经营活动）

注册资本 壹仟万元整

成立日期 2021年07月27日

住 所 山东省聊城经济技术开发区洛宫屯街道泰山路路东渡江路南9号普四东华办公楼602室

登记机关 聊城市经济技术开发区市场监督管理局

2026 年 05月 26 日

国家市场监督管理总局监制



中国制造网 认证供应商

AUDITED SUPPLIER

Presented To

Shandong Xin Wugang Steel Co.,LTD

山东鑫武钢铁有限公司

In Recognition of Your Site Existence & Business Operations

Audited by SGS-CSTC on 2022-09-26

Audit Report Serial No.: GP-A2022071105

Made-in-China.com 中国制造网 SGS

## CERTIFICATE

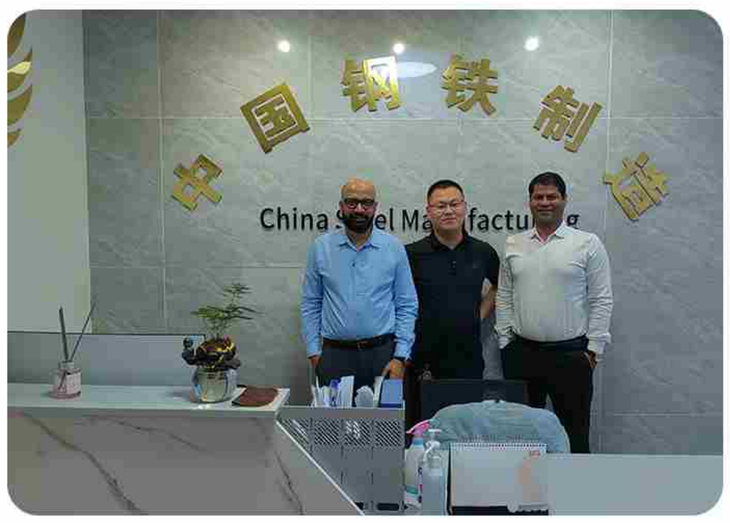







## PRODUCTION EQUIPMENT

## Our Advantages







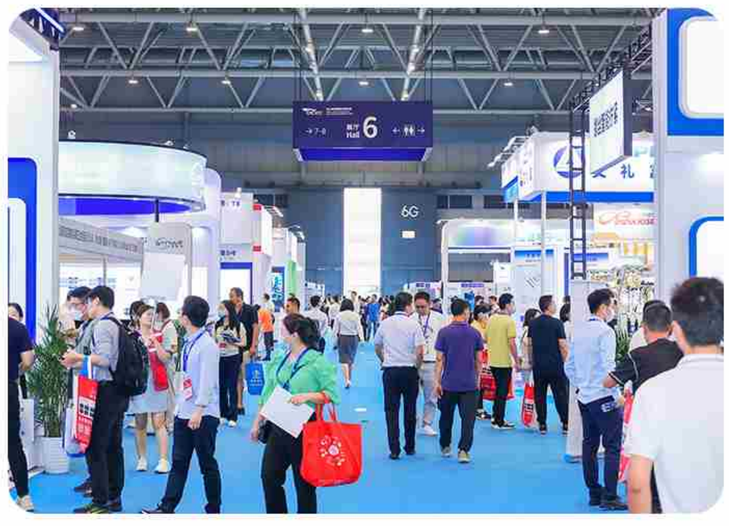


## CUSTOMER VISIT










## EXHIBITION

## CONTACT US

Tel/Wechat/whatsapp

**+86 19863513853**

Emeil

**Sara@x-wusteel.com**

Address

**Jiangguantun Street, Liaocheng Economic and Technological Development Zone, Shandong Province**

