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SHANGHAI METAL CORPORATION
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08
PRODUCT RANGE
Aluminium sheet
Aluminium coil
Aluminium strip
Aluminium foil
Aluminium tube/pipes/
profiles and bars



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Shanghai Metal Corporation

www.shanghaimetal.com

Shanghai Metal Corporation is an integrated manufacturer, exporter and supplier of value added Metal Products, Building systems, Shipping containers, and Machinery

OVERVIEW

MISSION STATEMENT

To maintain Long Lasting Relationships with our clients, and always dedicate our efforts to create Quality Products and Reliable Service, while building Global Value through our belief in Environmental Stewardship and Sustainability

To lead the market in both material manufacturing and process innovation

PURPOSE

CORE VALUES

Fair and Transparent Management – Provide clients with only the highest quality products – Continuous Innovation – Environmental Stewardship and Sustainability

To be world class through

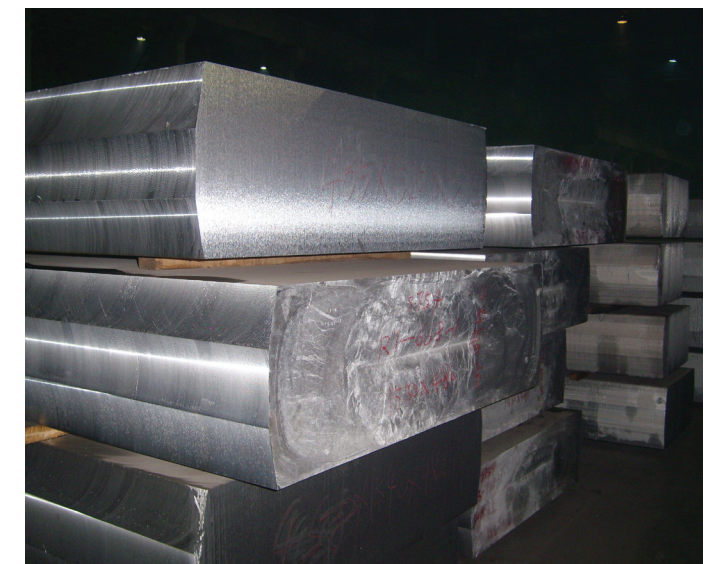
VISION

GOALS

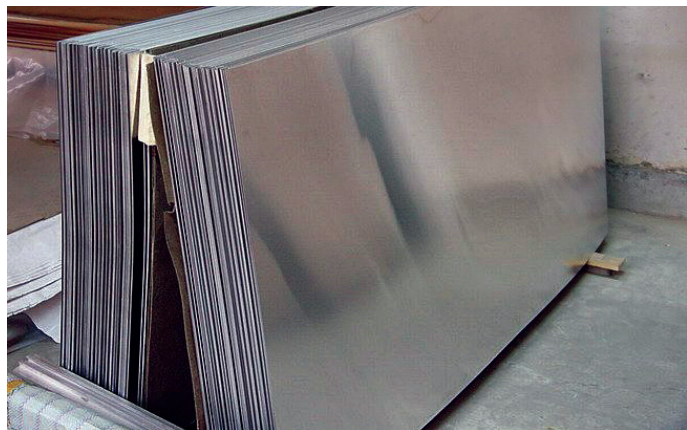
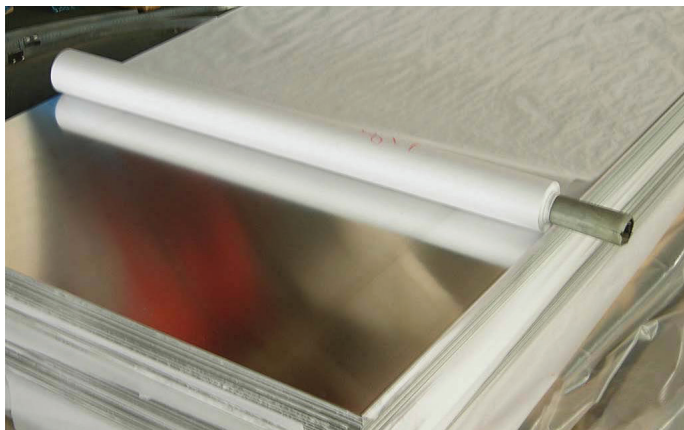
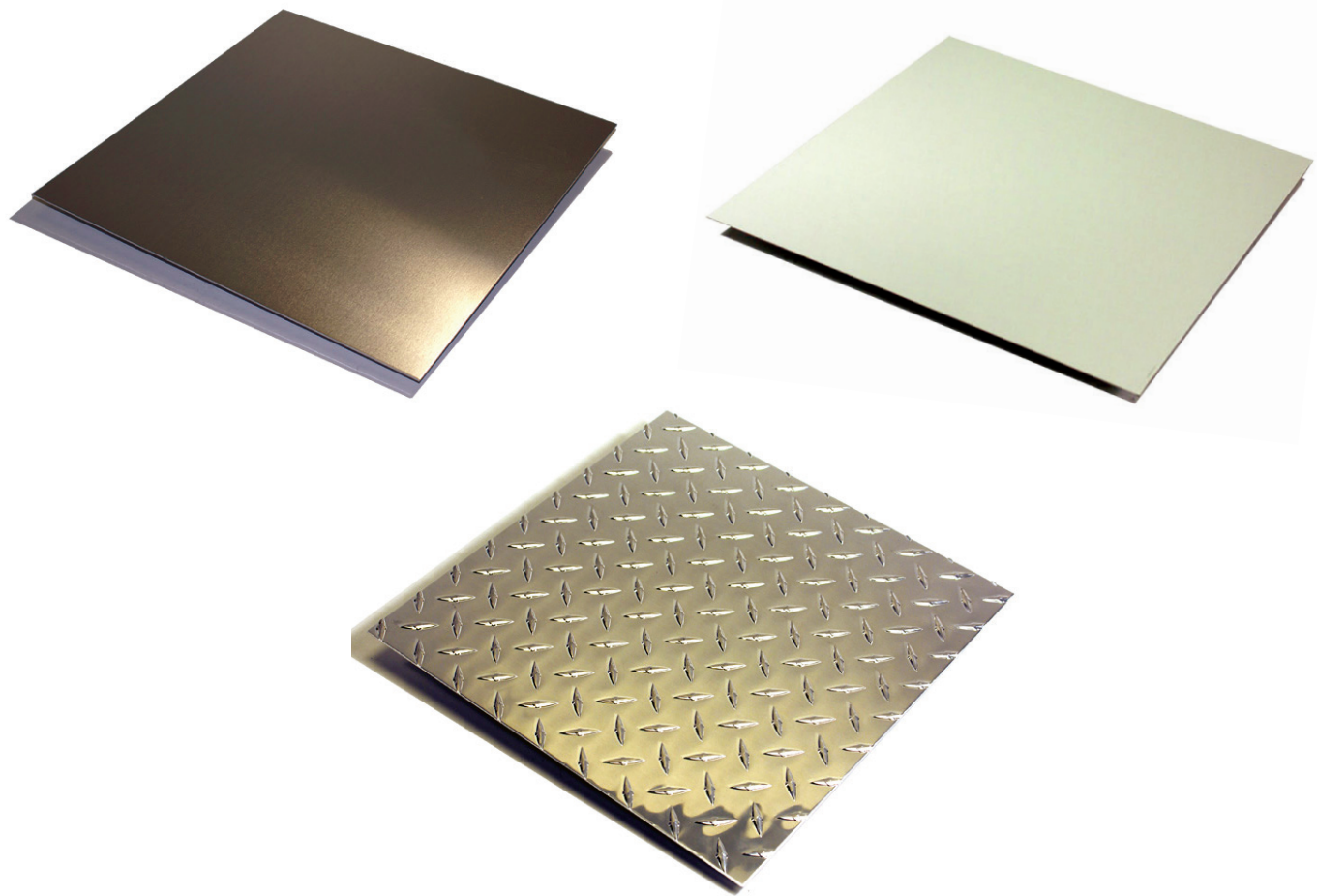
Maintain customer relationships through our belief in a customer driven culture – Lead the Market through Constant Innovation of our Operation Methods – To provide clients with only the Highest Quality Products through using the Latest developments in Technology and Processes



Shanghai Metal Corporation has one DC processing line, which is equipped with two heating systems, three cold machines, two foil rolling machines, four tension level machines, four slitting machines and eight nitrogen annealers. From 500mm thickness, the DC processing line can roll the slab ingot to be 6-8mm thickness, after being processed by cold rolling machine and foil rolling machine, the finished thickness can reach 0.2mm qualified thickness. We can supply you DC material of 1XXX, 2XXX, 3XXX, 4XXX, 5XXX, 6XXX, 7XXX and 8XXX series aluminium sheet and coil, our annual capacity can reach 120000 MT.

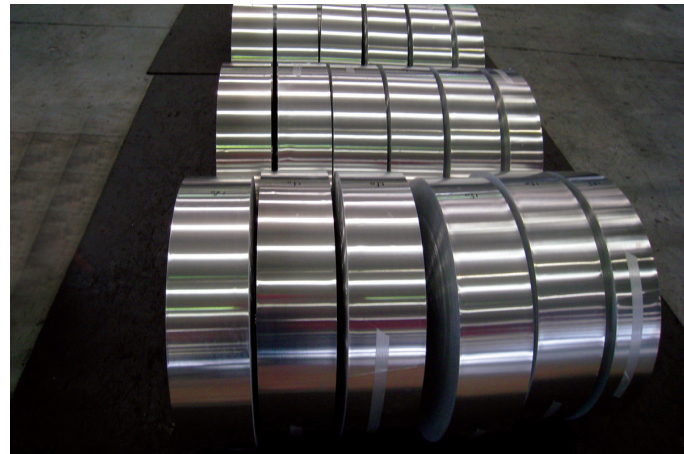
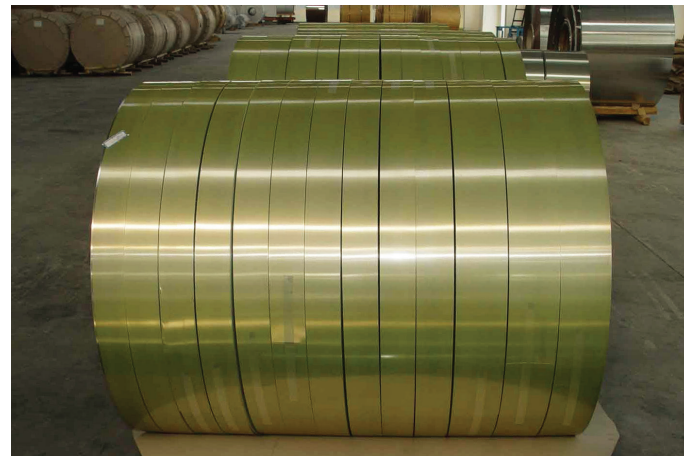
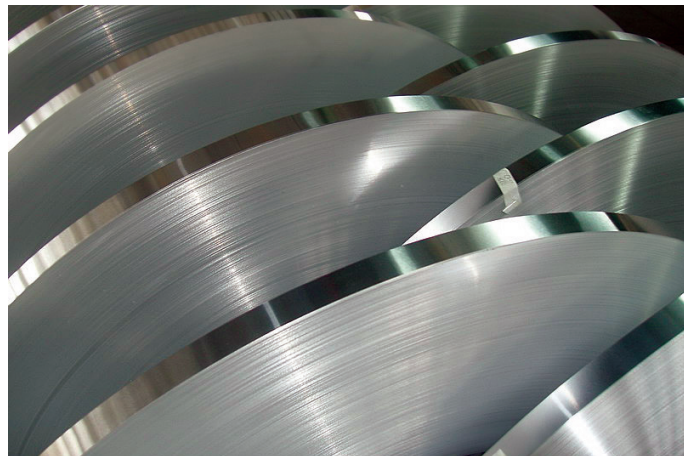


ALUMINUM SHEET / PLATE



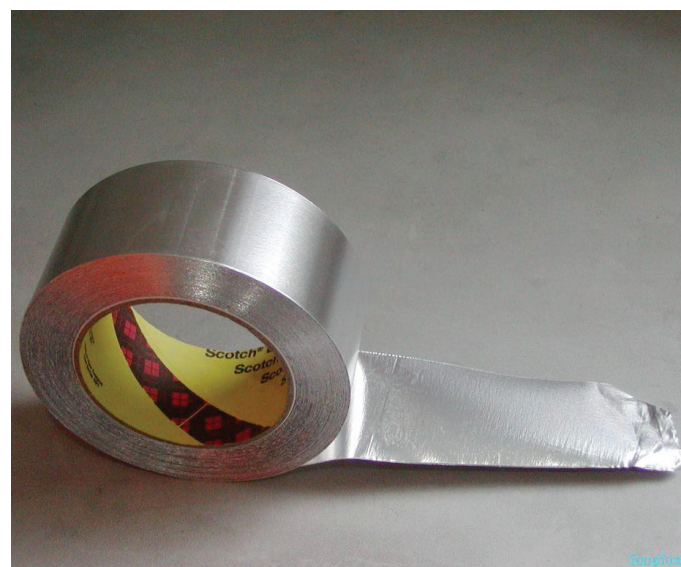
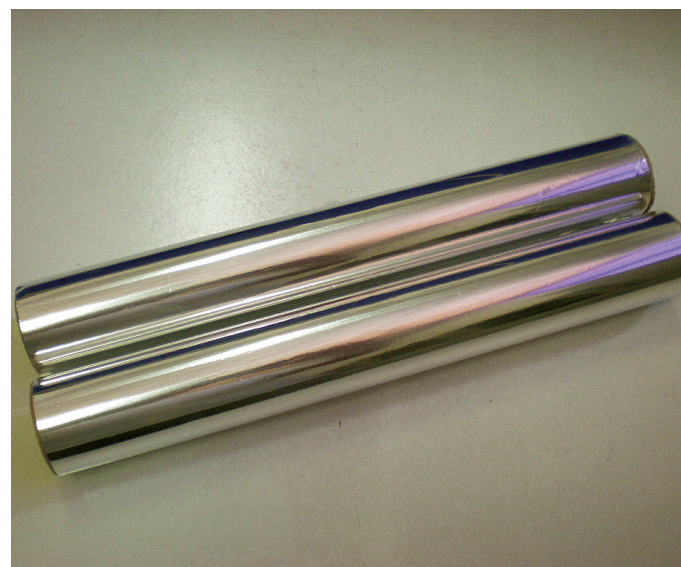
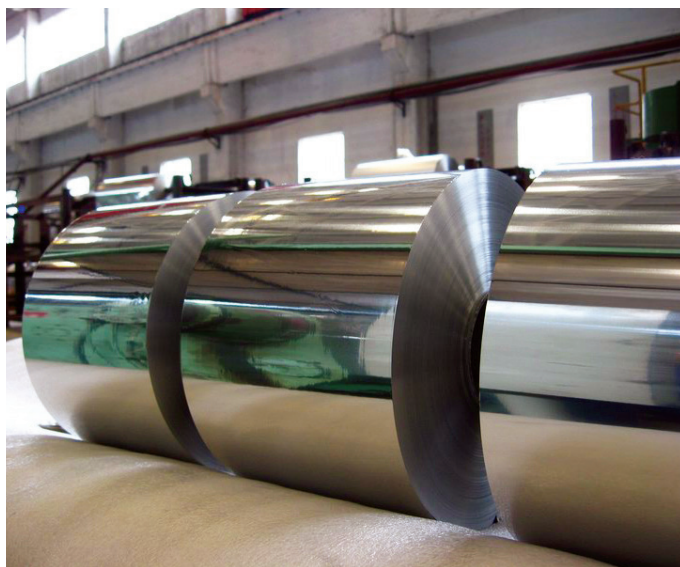
ALUMINUM COIL





PRODUCT	ALLOY	TEMPER	THICKNESS	WIDTH	LENGTH
Sheet & Plate & Coil	AA1050	All Tempers	0.18-350mm	150-2200mm	Up to 8000mm/coil
	AA1060	All Tempers	0.18-350mm	150-2200mm	Up to 8000mm/coil
	AA1100	All Tempers	0.18-350mm	150-2200mm	Up to 8000mm/coil
	AA2014	All Tempers	1.0-350mm	150-2200mm	Up to 8000mm/coil
	AA2024	All Tempers	1.0-350mm	150-2200mm	Up to 8000mm/coil
	AA3003	All Tempers	0.18-350mm	150-2200mm	Up to 8000mm/coil
	AA3004	All Tempers	0.3-350mm	150-2200mm	Up to 8000mm/coil
	AA3005	All Tempers	0.3-350mm	150-2200mm	Up to 8000mm/coil
	AA3104	All Tempers	0.3-350mm	150-2200mm	Up to 8000mm/coil
	AA3105	All Tempers	0.3-350mm	150-2200mm	Up to 8000mm/coil
	AA4045	All Tempers	0.2-350mm	150-2200mm	Up to 8000mm/coil
	AA5005	All Tempers	0.2-350mm	150-2200mm	Up to 8000mm/coil
	AA5052	All Tempers	0.2-350mm	150-2200mm	Up to 8000mm/coil
	AA5182	All Tempers	1.0-350mm	150-2200mm	Up to 8000mm/coil
	AA5083	All Tempers	0.3-350mm	150-2200mm	Up to 8000mm/coil
	AA5251	All Tempers	0.3-350mm	150-2200mm	Up to 8000mm/coil
	AA5754	All Tempers	1.0-350mm	150-2200mm	Up to 8000mm/coil
	AA6061	All Tempers	1.0-350mm	150-2200mm	Up to 8000mm/coil
AA7075	All Tempers	1.0-350mm	150-2200mm	Up to 8000mm/coil	
Roller coating sheet	AA1100	O H44 H46 H48	0.2-4.0mm	Up to 2200mm	300-6000mm
	AA3003		0.2-4.0mm	Up to 2200mm	300-6000mm
	AA3004	All Tempers	0.2-4.0mm	Up to 2200mm	300-6000mm
	AA3105	All Tempers	0.2-4.0mm	Up to 2200mm	300-6000mm
	AA5005	All Tempers	0.2-4.0mm	Up to 2200mm	300-6000mm
	AA5052	All Tempers	0.2-4.0mm	Up to 2200mm	300-6000mm
	AA5083	All Tempers	0.2-4.0mm	Up to 2200mm	300-6000mm
	AA5754	All Tempers	0.2-4.0mm	Up to 2200mm	300-6000mm
Roller coating coil	AA1100	All Tempers	0.2-3.0mm	Up to 2200mm	Up to 6000m/coil
	AA1060	All Tempers	0.2-3.0mm	Up to 2200mm	Up to 6000m/coil
	AA3003	All Tempers	0.2-3.0mm	Up to 2200mm	Up to 6000m/coil
	AA3004	All Tempers	0.2-3.0mm	Up to 2200mm	Up to 6000m/coil
	AA3005	All Tempers	0.2-3.0mm	Up to 2200mm	Up to 6000m/coil
	AA3104	All Tempers	0.2-3.0mm	Up to 2200mm	Up to 6000m/coil
	AA3105	All Tempers	0.2-3.0mm	Up to 2200mm	Up to 6000m/coil
	AA5005	All Tempers	0.2-3.0mm	Up to 2200mm	Up to 6000m/coil
	AA5052	All Tempers	0.2-3.0mm	Up to 2200mm	Up to 6000m/coil
	AA5083	All Tempers	0.2-3.0mm	Up to 2200mm	Up to 6000m/coil
AA5754	All Tempers	0.2-3.0mm	Up to 2200mm	Up to 6000m/coil	

ALUMINUM FOIL



SPECIFICATIONS

- Grade: 1050,1060,1070,1100,1200,1235,3003,3102,8011, 8079 etc.
- Temper: O,H14,H18,H22,H24,H26
- Thickness: 0.005mm-0.2mm, per customer's request
- Width:12mm-1950mm

Applications of Aluminum foil

1) Aluminum Foil for Food--including food packaging and food container:

PRODUCT NAME	APPLICATION	ALLOY	TEMPER	THICKNESS	WIDTH
Container Foil		3003/8011	O/H22/ H24	0.045mm-0.12mm	150mm-1650mm
Household Aluminum Foil		1235/8011	O	0.009mm-0.025mm	150mm-1650mm
Battery Aluminum Foil		1235/1060/ 1100/3003/ 8011	H19/H9	0.01mm-0.03mm	150mm-1650mm
Aluminum Foil for Hot Seal		1060/1235/8011	O	0.03mm-0.07mm	150mm-1650mm
Aluminum Foil for PP Caps		8011	H14	0.18mm-0.24mm	per cutting request

2) Aluminum Foil for Packaging-wide application:

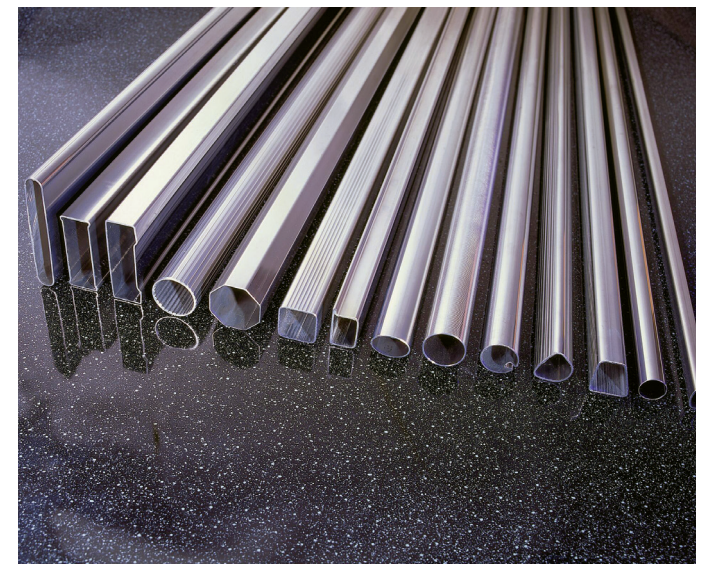
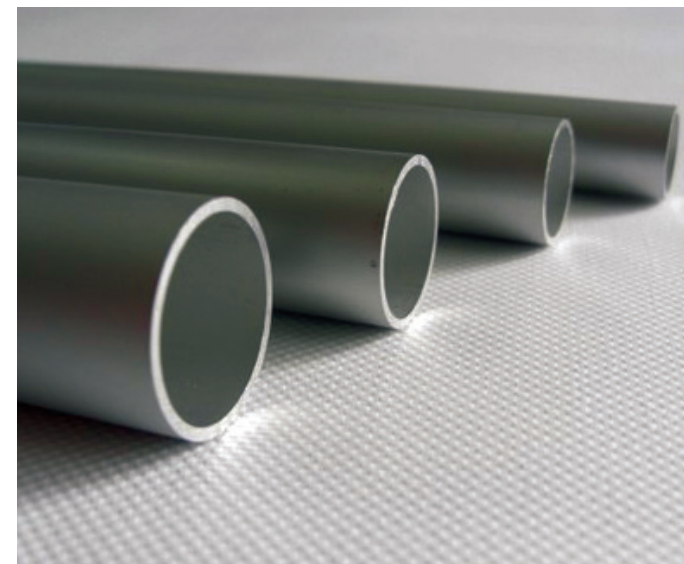
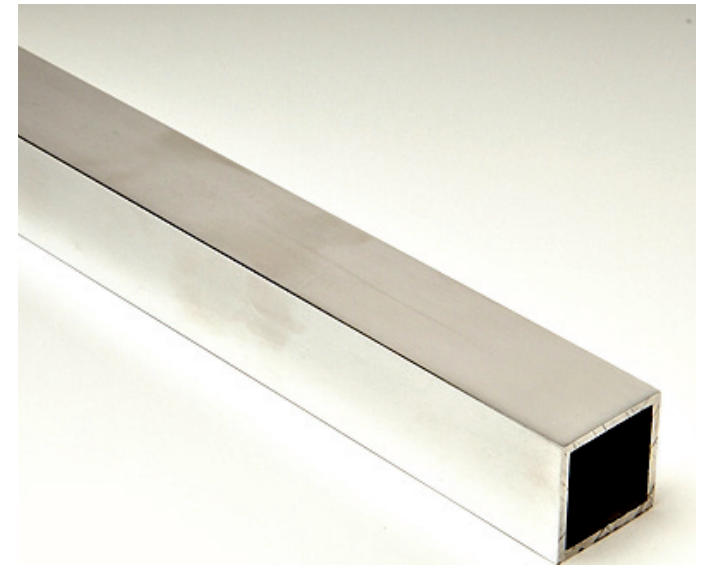
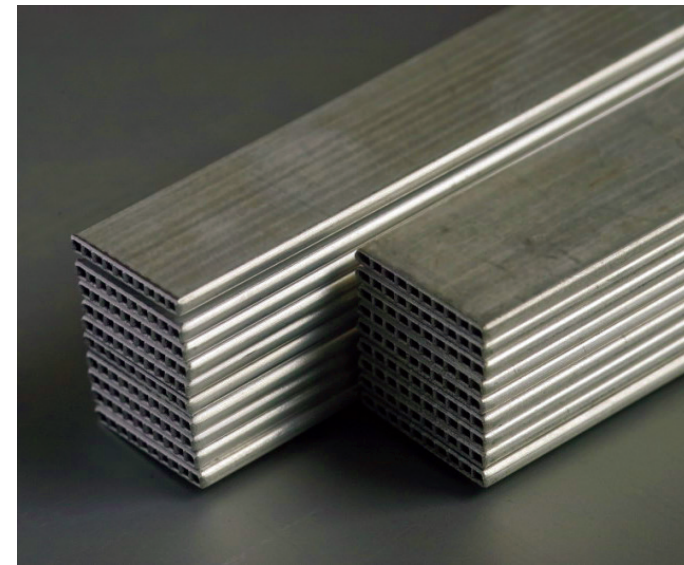
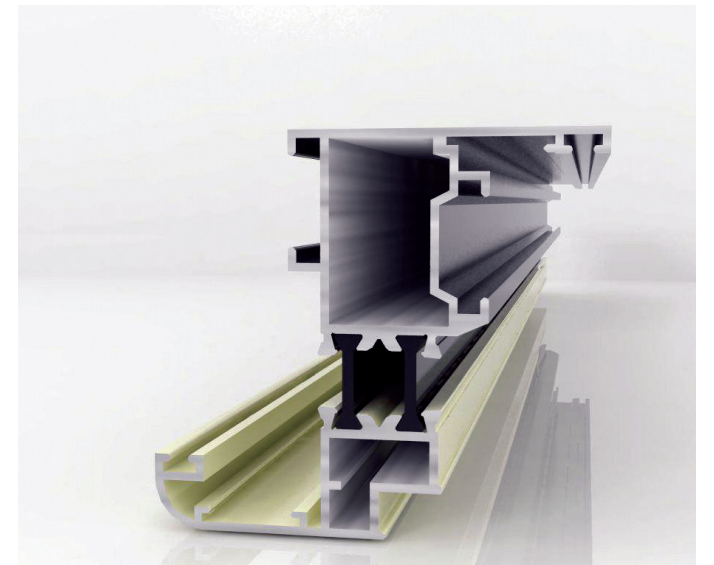
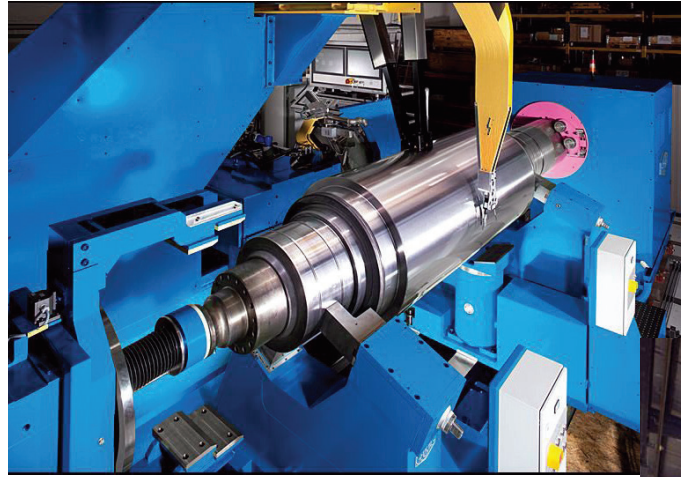
PRODUCT NAME	APPLICATION	ALLOY	TEMPER	THICKNESS	WIDTH
Beer Bottle Mark Foil		8011	O	0.010mm	150mm-1950mm
Pharmaceutical Foil		8011	H18	0.018mm-0.030mm	150mm-1950mm
Converting Foil for Packaging		8079/1235/8011	O	0.006mm-0.009mm	150mm-1950mm
Cigarette Foil		8079/1235/8011	O	0.006mm-0.007mm	150mm-1950mm

3) Aluminum Foil for Industry--used in industrial processing:

PRODUCT NAME	APPLICATION	ALLOY	TEMPER	THICKNESS	WIDTH
Aluminum Foil for A/C		1100/1200/3003/8011	O/H22/H24/H26	0.08mm-0.30mm	12mm-1650mm
Hydrophilic Foil		1100/3003/3102/8011	O/H22/H24/H26	0.08mm-0.30mm	12mm-1650mm
PS/CTP base board		1050/1060/1070/3003	H18	0.15mm-0.70mm	700mm-1300mm
Aluminum Foil of narrow width		1000/3000/8000	O/H14/H18/H22/H24/H26	0.005mm-0.2mm	3mm-600mm
Cable Material		1050/1060/1100/1235/8011	O/H22/H24	0.05mm-0.20mm	12mm-1300mm
Adhesive tape foil		1235/8011/8079	O	0.015mm-0.05mm	30mm-1650mm

Our foil plant has 18 foil mills equipped with flatness control system from Siemens (AFC) and gauge control system from Honeywell (AGC). About 20 separators and 10 slitters for various applications, 4 grinders from Herkules Germany, more than 60 annealing furnaces. The thickness range of our foil is from 0.005mm to 0.2 mm with width up to 1950 mm. Our products include semi-rigid container foil, household foil, beverage foil label, blister foil, foil tape, hot seal foil, tube foil, cigarette foil, flexible packing, capacitor foil and other twenty varieties.





Typical Aluminum Alloy Materials' Chemical Composition and Mechanical Properties

Grade	Chemical Composition (%)										Temper	Tensile Mpa.	Elongation %
	Si	Fe	Cu	Mn	Mg	Cr	Ni	Zn	Ti	Al			
1050	0.25	0.40	0.05	0.05	0.05	-	-	0.05	0.03	99.50	O/H18/H112	60-95	22
1100	0.95		0.05-0.20	0.05	-	-	-	0.10	-	99.00	O/H18/H112	75-110	22
2014	0.50-1.20	0.70	3.9-5.0	0.40-1.2	0.20-0.8	0.10	-	0.25	0.15	Remain	O/H112/T4/T6	375	10
2024	0.50	0.50	3.8-4.9	0.30-0.9	1.2-1.8	0.10	-	0.25	0.15	Remain	O/H112/T4/T6	440	10
3003	0.60	0.70	0.05-0.20	1.0-1.5	-	-	-	0.10	-	Remain	O/H14	95-130	22
5052	0.25	0.40	0.10	0.10	2.2-2.8	0.15-0.35	-	0.10	-	Remain	O/H14/F	170-240	-
5083	0.40	0.40	0.10	0.40-1.0	4.0-4.9	0.05-0.25	-	0.25	0.15	Remain	O/H14/H32	270-355	12
6061	0.40-0.80	0.70	0.15-0.40	0.15	0.8-1.2	0.04-0.35	-	0.25	0.15	Remain	O/H112/T4/T5/T6	260	9
6063	0.20-0.6	0.35	0.10	0.10	0.45-0.9	0.10	-	0.10	0.10	Remain	O/H112/T4/T5/T6	205	9
6082	0.7-1.3	0.50	0.10	0.40-1.0	0.6-1.2	0.25	-	0.20	0.10	Remain	O/H112/T4/T6	285	8
7075	0.40	0.50	1.2-2.0	0.30	2.1-2.9	0.18-0.28	-	5.1-6.1	0.20	Remain	F/T4/T6	560	6

Aluminum Tubes/Pipes & Profiles :
Surface treatments of Aluminum Tubes/Pipes & Profiles

- 1) Anodizing
- 2) Polishing
- 3) Powder coated
- 4) Electrophoresis
- 5) Sand-blast
- 6) Coating film

Typical Aluminum Alloy Materials' Chemical Composition and Mechanical Properties



Picture 1

Picture 2

Picture 3

Picture1:The 100MN extrusion press by China Taiyuan Heavy Industry

Picture2:The 55MN indirecte tube extrusion press(double acting)by SMS-MEER

Picture3:The 36MN directe extrusion press by China Taiyuan Heavy Industry



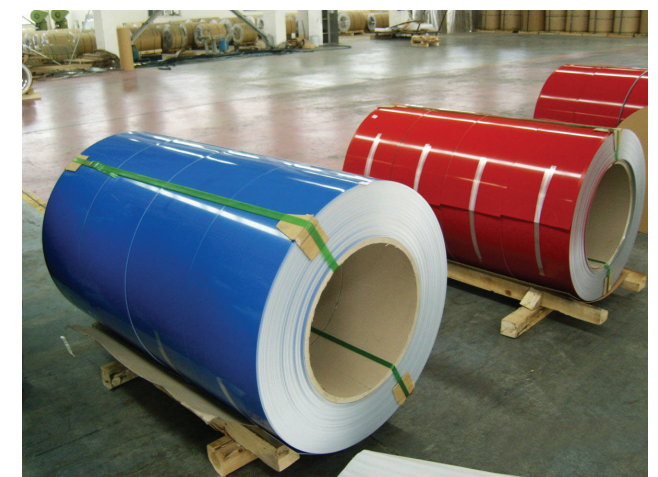
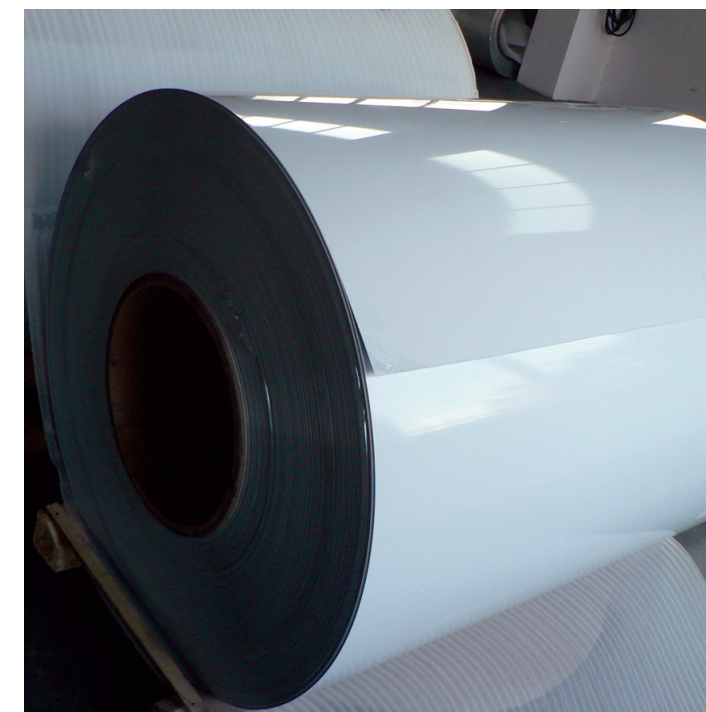
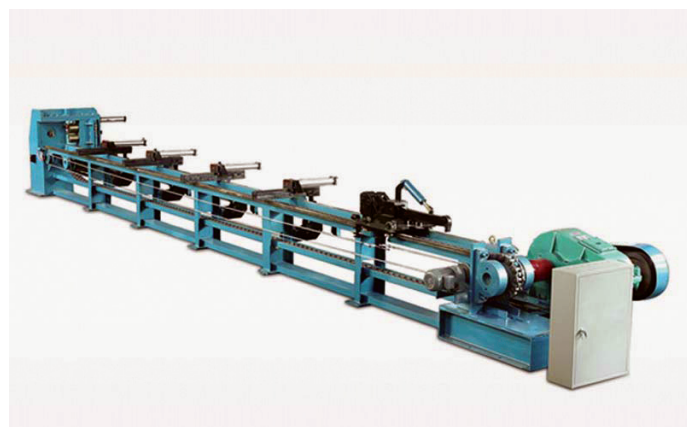
Picture 1	Picture 2
Picture 3	Picture 4
Picture 5	Picture 6

Picture 1: Casting of extrusion bar
 Picture 2: Extrusion flow platform
 Picture 3: Straighten machinery
 Picture 4: Anodizing pool
 Picture 5: Machinery of cold drawn
 Picture 6: CNC mould making center

It is well known that fluoro-carbon lacquer coating (PVDF coating) owes the best acid/alkali resistant and temperature tolerance capabilities of all painting materials. Being the best quality of pre-coated aluminum, PVDF coated coils are especially suitable for outdoor roofing/walls and hang ceilings manufacturing.

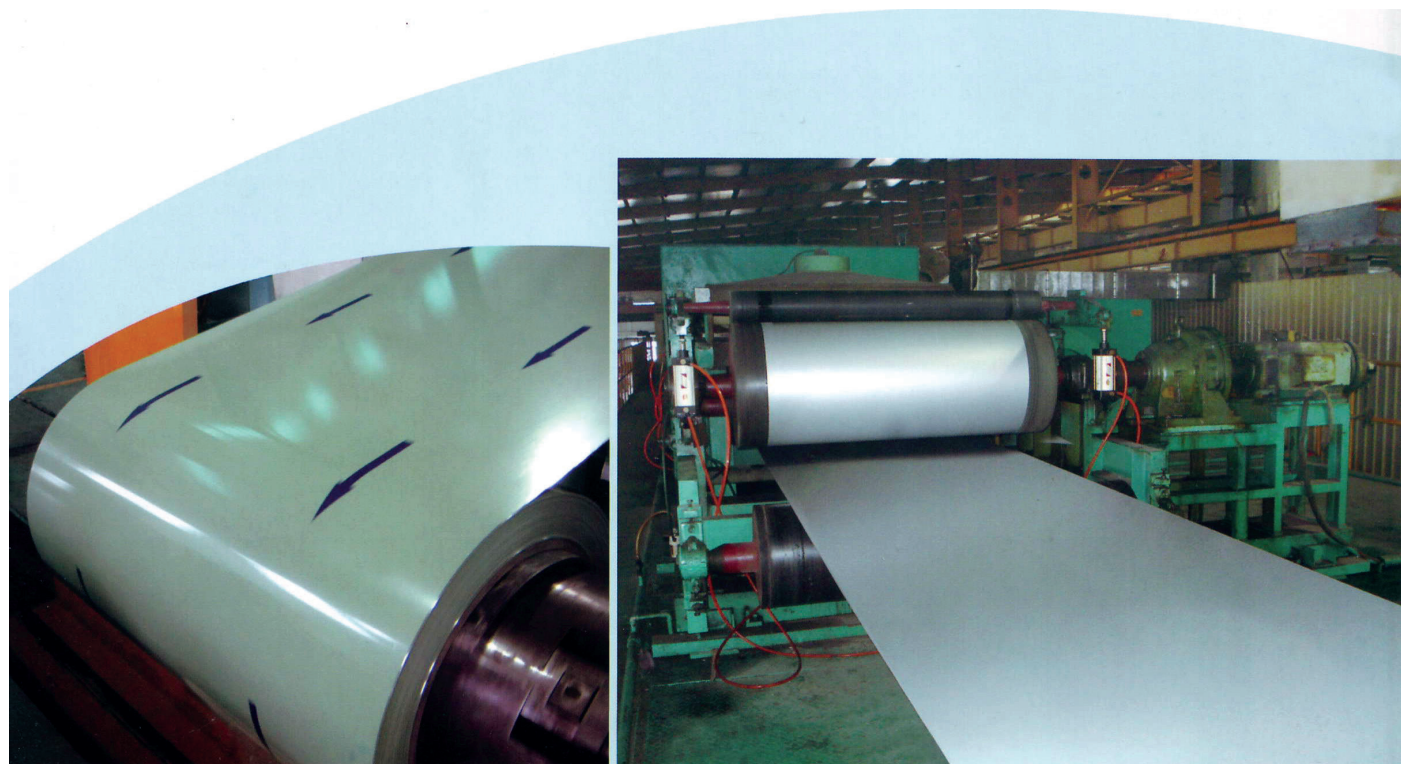


Using high-grade polyester lacquer coating material, the finished coating coils are with delicate color uniform texture, color and diverse. It is the most popular and most common used materials in decorative usage. The PE coated aluminum are widely used in ACP (aluminum composite panel) production and indoor ceiling usage.

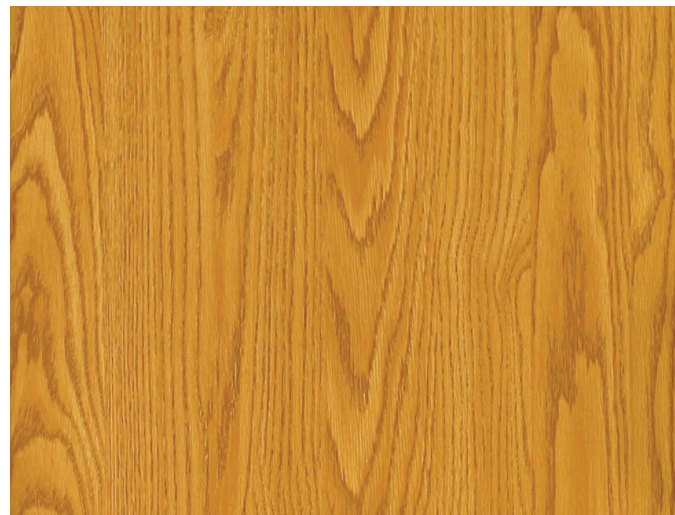


A3004 color pre-coated aluminum (for roofing) : The SMC A3004 coated Aluminum of roofing are especially outstanding at its high strength / corrosion resistance and weather resistance because of its using of the A3004 alloy and pre-coated with the best PVDF coating brands such as PPG/BECKER and VALSPAR, which enables our finished products a warranty of outdoor using for more than 20years. After the processing. Our A3004 coated coils are suitable 20years . After the processing. Our A3004 coated coils are suitable for large - span and big over all roofing installment.

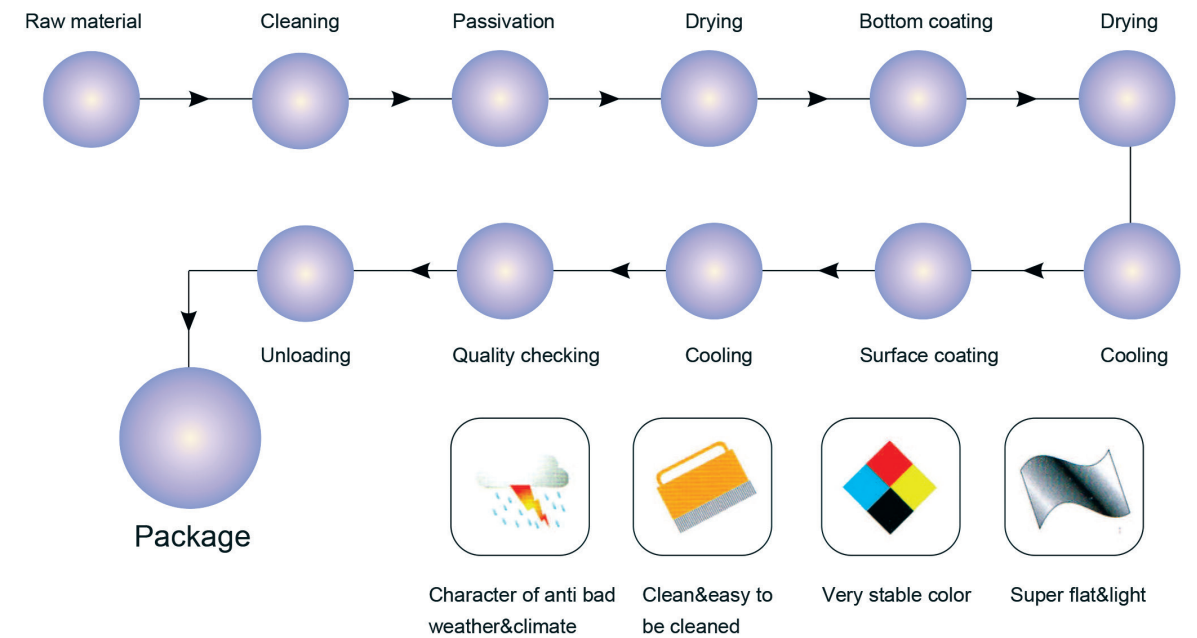
Aluminum coils for building decoration : SMC pre-painted aluminum coils include various series for different ceiling / home decorative and wall decorative. Now we have the PVDF series / PE series/ nano coating series/pearly luster series / self clean series / anti scratch series and wood grain series. With all the different series, we can meet most of the market requirements.



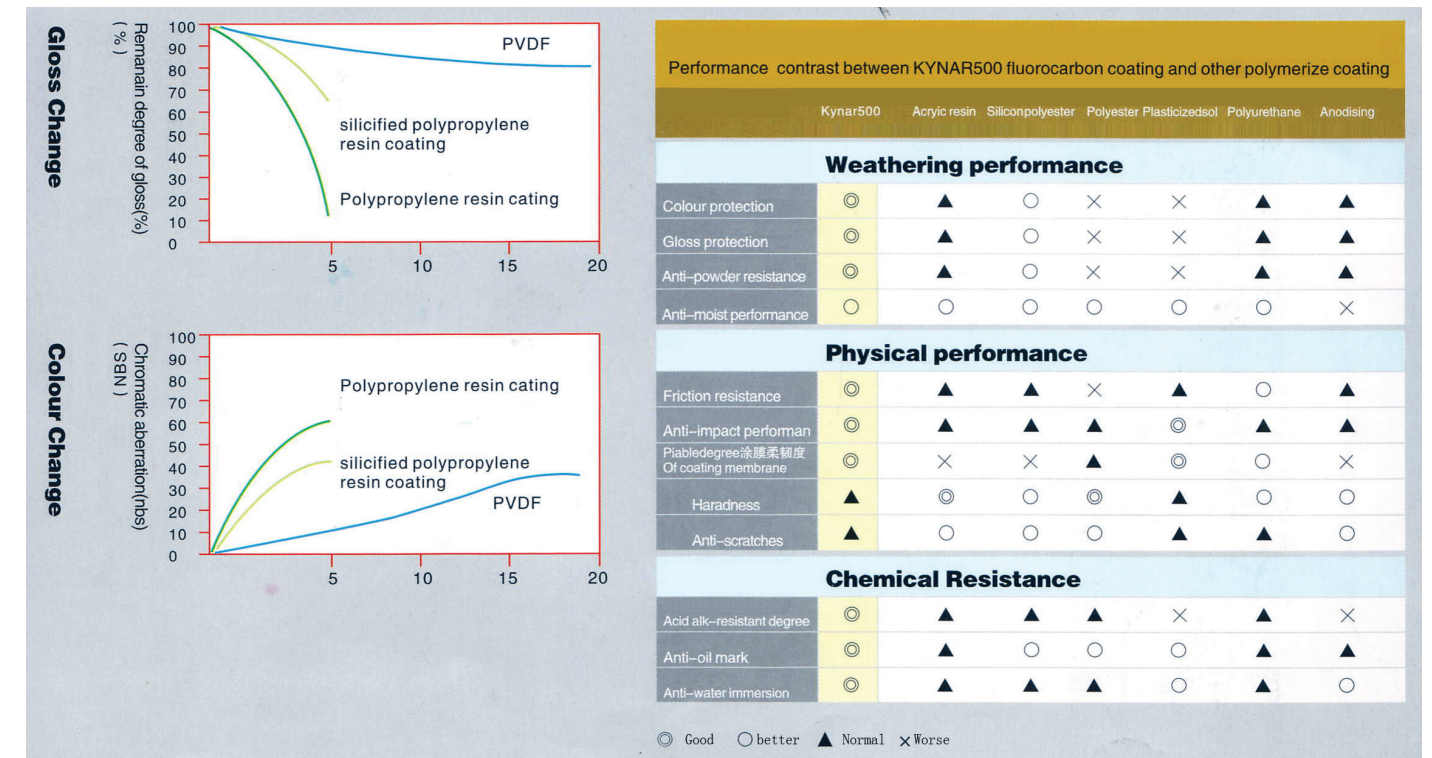
Wood grain / marble vein color coated aluminum

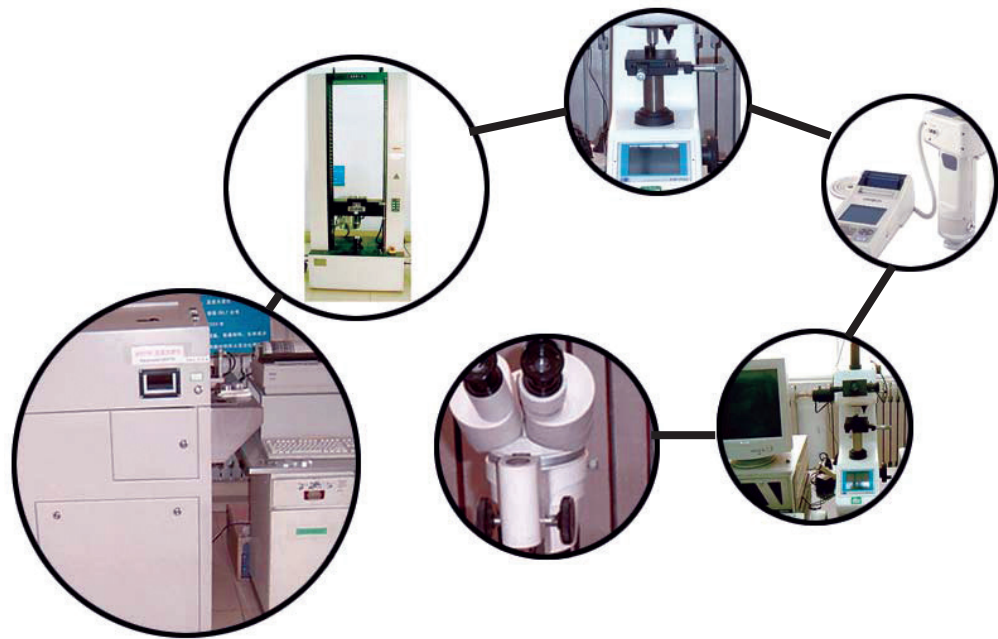


Manufacturing Process



Properties - chart

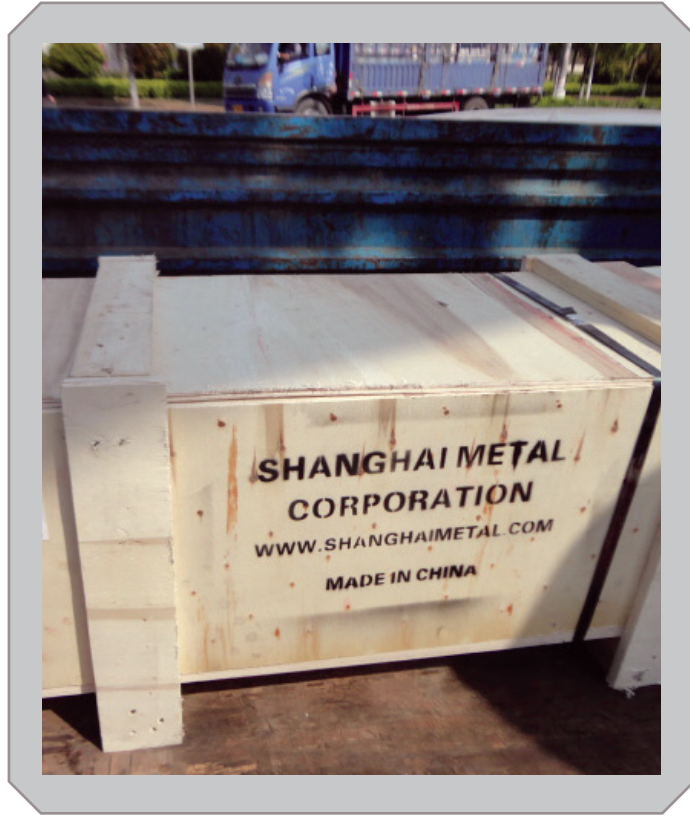




- Spectrometers from British Arun company
- Tensile Strength Tester
- Tester For Hardness
- Microscope Test of Grain Size
- BYK Color Difference Tester
- Suffix Drying Film Tester from Germany

In order to improve quality of all products, we import 5 ABB Measurement and control systems from Sweden and an advanced spectrometers particularly from the British Arun company, to keep all aluminum sheets & coil have clean surface with excellent quality and high smoothness. The tolerance of their length, thickness, width and diagonal is extremely small; all of them have good Mechanical Performance and Mechanical bending performance, so that we are able to meet different production requirement of clients.





Label of Aluminum foil

Label of Aluminum Alloy Tube

SMC SHANGHAI METAL CORPORATION	
品名 PRODUCT	Aluminum Foil 8011 H22 non lubricated
包装号 PACKAGE ID	SD20158060
尺寸 DIMENSIONS	0.05 x 411mm
日期 DATE	Feb. 26, 2015
托盘号 PALLET NO.	8
牌号 Grade	8011 H22
订单编号 ORDER NO.	1416088-8060
毛重 (KGS) GROSS WEIGHT	2
产地 ORIGIN AREA	MADE IN CHINA BY SMC
净重 (KGS) NET WEIGHT	2
检验员 INSPECTOR	SMC 021
Tel: +86-21-5830 9368 Fax: +86-21-5081 9492 sales@shanghaimetal.com www.shanghaimetal.com	

SMC SHANGHAI METAL CORPORATION	
品名 PRODUCT	Anodized Aluminum Tube
包装号 PACKAGE ID	SD201505
尺寸 DIMENSIONS	OD25mm x1mm x420mm
日期 DATE	Apr. 24, 2015
托盘号 PALLET NO.	3
牌号 Grade	6063-T6
订单编号 ORDER NO.	1516299-8051
毛重 (KGS) GROSS WEIGHT	477
产地 ORIGIN AREA	MADE IN CHINA BY SMC
净重 (KGS) NET WEIGHT	446.3
支数 PCS	46
Tel: +86-21-5830 9368 Fax: +86-21-5081 9492 sales@shanghaimetal.com www.shanghaimetal.com	

Shanghai Metal Corporation provides professional SMC and neutral labels for our worldwide customers. On the label, Products name, Material grade, Temper, Dimension, Color, Quantity of pcs, Net weight, Gross weight, Invoice number, Inspector No. and other related information will be showed. The anti-corrosion and waterproof label makes the package more professional and trackable, which is in accordance with our digital logistics system.

