



1100 Prepainted Aluminum Coil



1100 prepainted aluminum coil or color coated aluminum coil is made from 1100 aluminum coil by coated with PE/PVDF coating. The paint can bring many advantages to the whole painted aluminum coil. As one of the softest and most formable aluminum alloys, it is widely used in building, decoration, packaging industries and other applications requiring high malleability, corrosion resistance, and cost efficiency.

Specification of 1100 Prepainted Aluminum Coil:

Alloy	1050, 1060, 1070, 1100, 3003, 3004, 3105, 5005, 5006, 5052, 5754, 5182
Thickness	0.2-1.5mm
Width	600-1500mm, ultra wide to 2500mm
Coating Surface	PVDF/ PE/HDPE/EOXY/ PU
Coating Thickness	Single Coating (4-20 Um)
	Double Coating (25-28 Um)
	Triple Coating (35-38 Um)
Temper	O,H12,H22,H14,H24,H16,H26,H18,H26,etc.
Color	All Ral Color or As Request
Type	Coil, sheet, strips, plate
Coil Weight	3-8 MT
Coil ID	508mm and 405mm
Certifications	ISO9001
Applications	Roofing System and Ceiling Decoration for Airport, Railway Stations, Exhibition Halls, Factory and Stadium
Supply Ability	200000 tons per year
MOQ	2 tons per size

Coating Options:

- Polyester Coating: A common choice for outdoor applications due to its durability and resistance to fading.
- PVDF (Polyvinylidene Fluoride) Coating: Offers superior weathering, UV resistance, and a long lifespan, often used for architectural applications.

Technical Data:

POLYESTER		PVDF	
Item	Technical requirements	Item	Technical requirements
Thickness of	$\geq 18 \mu\text{m}$	Thickness of	$\geq 25 \mu\text{m}$



coating film		coating film	
Gloss deviation	gloss<70, tolerance $\leq 10\%$	Gloss deviation	gloss<70, tolerance $\leq 10\%$
	gloss ≥ 70 , tolerance $\leq 5\%$		gloss ≥ 70 , tolerance $\leq 5\%$
Hardness of pencil	$\geq 3H$	Hardness of pencil	$\geq 3H$
Adhesion	no lower than class 1	Adhesion	no lower than class 1
Flexibility	$\leq 2T$	Flexibility	$\leq 2T$
Boiling water resistance	no change (2h)	Boiling water resistance	no change (2h)
Color difference	$\Delta E \leq 2.0$	Color difference	$\Delta E \leq 2.0$
MEK	≥ 100 times	MEK	≥ 150 times

Key Properties of 1100 Color Coated Aluminum Coil:

Chemical Composition

Element	Aluminum (Al)	Silicon (Si)	Iron (Fe)	Other Impurities
Content (%)	≥ 99.6	≤ 0.15	≤ 0.7	≤ 0.25

Mechanical Properties

Property	Tensile Strength	Yield Strength (0.2% offset)	Elongation at Break	Hardness (Rockwell B)
Typical Value (Temper: O)	90–110 MPa	30-50 MPa	20-30%	25-35

Physical Properties

Property	Density	Melting Point	Thermal Conductivity	Electrical Conductivity	Thermal Expansion Coefficient
Value	2.7 g/cm ³	643–657°C	205 W/m·K	61% IACS	$23.1 \times 10^{-6}/^{\circ}\text{C}$ (20–100°C)

Standards and Specifications

ASTM	B209
ISO	ISO 26204 (alloy designations), ISO 6892 (mechanical testing), ISO 9001, ISO 14001.
UNS	A91050 (United States Numbering System)

Advantages of 1100 Painted Aluminum Coil:

1. Small Density: The density of aluminum is only about one-third of steel. In the case of same thickness, calculate the final price on square meter basis, they are almost same.
2. Excellent Processability: Due to moderate structural strength of aluminum, it's easy for processing and convenient to installation, which can reduce construction cost.
3. Nice Decoration: Use aluminum for external insulation decoration, it have bright overall visual.



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With the addition of paint coating process, that make architectural appearance much more colorful and lively.

4. Long Period Of Validity: Because of the outstanding corrosion resistance, the period of validity can reach above 25 years under normal conditions.

5. High Recovery: The recovery rate can reach 85%.

Applications of 1100 Coated Aluminum Coil:

- Architectural decoration: used to make various special-shaped materials, panels, exterior panels and curtain wall panels, etc.
- Automobile manufacturing: used to make automobile body panels, interior panels, door panels, engine hoods and other parts.
- Medical equipment: used as packaging materials for medical instruments and equipment, as well as operating room isolation materials, medical consumables, etc.
- Home appliance manufacturing: used to make the shell and internal materials of household appliances such as televisions, refrigerators, and air conditioners.

Our Capabilities

- High-Volume Production

With an annual output of 200,000 metric tons, we reliably meet the demands of large-scale projects and tight timelines.

- Global Reach, Local Presence

Our products serve clients in over 30 countries, supported by local inventory for faster delivery and support.

- Certified Quality

Our quality management system and products are certified to ISO 9001, ASTM, and CSA standards, ensuring guaranteed performance.

- Technical Expertise

Our engineering team provides expert material selection and application support to ensure optimal performance for your specific requirements.

- Full Customization

We offer complete customization of colors, finishes, and dimensions to meet exact architectural specifications.

Packaging:

- 1) LCL by wooden pallet package, fumigation wooden pallet is available
- 2) FCL by wooden pallet package loaded in the container
- 3) FCL in bulk loaded in the container
- 4) Customized package according to your demands

Shipping:

7-15 days after receipt of payment(depend on order quantity)