

## 1350 Aluminum Strip for Transformer Winding



1350 aluminum strip is a commonly used electrical grade aluminum material for transformer winding and other conductor applications. It offers excellent electrical conductivity, good ductility and stable processing performance. Because of its conductor-grade characteristics, 1350 aluminum strip is widely selected by transformer manufacturers for coil winding where reliable electrical performance and smooth winding operation are required.

For transformer winding applications, 1350 aluminum strip is usually supplied in O temper / soft temper. The soft condition allows the strip to be bent and wound smoothly during coil production, reducing the risk of cracking, deformation and insulation damage.

Our 1350 aluminum strip for transformer winding is produced through controlled rolling, annealing, precision slitting and strict quality inspection. We can supply customized thickness, width, coil inner diameter, edge condition and packaging according to customer requirements.

### Specifications

Product Name	1350 Aluminum Strip for Transformer Winding
Alloy	1350
Temper	O / Soft
Thickness	0.20 – 3.00 mm
Width	10 – 500 mm or customized
Inner Diameter	150 mm / 300 mm / 400 mm / 500 mm or customized
Outer Diameter	According to coil size and customer requirement
Surface	Smooth, clean, free from obvious scratch, oil stain and oxidation
Edge Condition	Slit edge / deburred edge / round edge

Coil Weight	Customized according to customer requirement
Standard	According to applicable standard or technical agreement
Packaging	Export-standard wooden pallet or wooden case
MOQ	2 Tons

**Typical Chemical Composition of 1350 Aluminum Strip**

Alloy	Al (%) Min	Si (%) Max	Fe (%) Max	Cu (%) Max	Mn (%) Max	Mg (%) Max	Zn (%) Max	Others Max
1350	99.50	0.10	0.40	0.05	0.01	0.01	0.05	0.03 each / 0.10 total

**Typical Mechanical Properties**

Alloy	Temper	Tensile Strength	Elongation
1350	O / Soft	55 – 95 MPa	≥ 25%

**Electrical Conductivity**

Alloy	Temper	Conductivity
1350	O / Soft	≥ 61.0% IACS

**Thickness and Width Tolerance**

Thickness Range	Thickness Tolerance	Width Range	Width Tolerance
0.20 – 0.50 mm	±0.01 / ±0.02 mm	<100 mm	± 0.10 mm
0.50 – 1.00 mm	±0.02 mm	100-200 mm	± 0.15 mm
1.00 – 2.00 mm	±0.03 mm	201-500 mm	± 0.20 mm
2.00 – 3.00 mm	±0.04 mm	501-1250 mm	± 1 mm

**Edge Quality Requirements**

For transformer winding, edge quality is very important. Poor edge condition may damage

insulation paper, insulation film or other insulating materials during winding. Therefore, transformer winding aluminum strip requires strict burr control and stable edge quality.

Item	Requirement
Burr Height	≤ 0.03 mm
Edge Collapse	≤ 0.05 mm
Edge Condition	Smooth and neat
Optional Edge	Slit edge / deburred edge / round edge
Surface Requirement	Clean surface without obvious scratch or contamination

## Typical Applications

1350 aluminum strip for transformer winding is widely used in:

- Transformer winding
- Dry-type transformer coils
- Oil-immersed transformer coils
- Distribution transformers
- Power transformers
- Electrical reactors
- Electrical conductor components
- Aluminum coil winding materials
- Electrical equipment manufacturing

## Why Use 1350 Aluminum Strip for Transformer Winding?

1350 aluminum strip is specially suitable for electrical conductor applications. It provides a good balance of conductivity, formability and mechanical stability. For transformer coil manufacturing, 1350 aluminum strip helps achieve reliable winding performance and stable electrical characteristics.

Main Advantages

- Designed for electrical conductor applications
- High conductivity for transformer winding
- Good softness after annealing
- Easy to wind and process
- Smooth surface for insulation compatibility
- Low burr edge to reduce insulation damage
- Stable dimensional tolerance for coil consistency
- Suitable for customized transformer design

### 1350 Aluminum Strip vs 1060 / 1070 Aluminum Strip

Item	1060 Aluminum Strip	1070 Aluminum Strip	1350 Aluminum Strip
Aluminum Content	≥ 99.60%	≥ 99.70%	≥ 99.50%
Main Characteristic	General high-purity aluminum	Higher purity aluminum	Electrical conductor grade aluminum
Conductivity	Good	Excellent	Excellent for conductor use
Transformer Application	Commonly used	Used where higher purity is required	Widely used for electrical winding
Processing Performance	Good	Good	Good
Typical Use	Transformer winding	Transformer winding	Transformer winding and conductor applications

**Selection Suggestion:**

1060, 1070 and 1350 aluminum strips can all be used for transformer winding. If the customer focuses on conductor-grade material and electrical application performance, 1350 aluminum strip is a very suitable option.

### Production Process

Our 1350 aluminum strip for transformer winding is manufactured under controlled production processes to ensure stable conductivity, soft temper, accurate dimension and smooth surface quality.

Raw Material Inspection → Rolling → Annealing → Precision Slitting → Edge Inspection → Conductivity Testing → Rewinding → Packaging

### Quality Control

Strict quality control is carried out throughout production to ensure that the 1350 aluminum strip meets transformer winding requirements.

**Quality Inspection Items**

- Raw material inspection
- Chemical composition verification
- Thickness tolerance inspection

Width tolerance inspection  
Surface quality inspection  
Edge burr inspection  
Edge collapse inspection  
Conductivity testing  
Tensile strength testing  
Elongation testing  
Coil appearance inspection  
Final packaging inspection

Our quality control process helps ensure stable product performance, reliable coil winding and safe delivery.

### **Surface Quality**

1350 aluminum strip for transformer winding should have a smooth, clean and uniform surface. The surface condition is important because it may affect insulation contact, winding stability and final transformer performance.

#### Surface Requirements

Smooth and clean surface  
No obvious scratches  
No serious oxidation marks  
No oil stains or contamination  
No cracks, dents or edge defects affecting use  
Suitable for insulation paper or insulation film wrapping  
Good surface consistency for transformer coil production

### **Packaging and Delivery**

We provide export-standard packaging to protect the aluminum strip during storage and transportation.

Eye to wall / eye to sky packaging available  
Moisture-proof film wrapping  
Protective paper or plastic film  
Wooden pallet packaging  
Wooden case packaging  
Seaworthy export packaging  
Customized packaging according to customer requirement