

1050 Aluminum Strip For Transformer Winding



1050 aluminum strip is commonly used for transformer winding because of its high aluminum content, good ductility and stable processing performance. In O temper, it is soft and easy to wind, helping improve coil forming efficiency and reduce the risk of cracking during processing. We can supply 1050 transformer aluminum strip in customized thickness, width and coil specifications according to

different winding requirements.

Specifications of 1050 Aluminum Strip For Transformer:

Product Name	1050 Aluminum Strip for Transformer Winding
Alloy	1050
Temper	O / Soft
Thickness	0.20 – 3.00 mm
Width	10 – 1250 mm
Inner Diameter	150 mm / 300 mm / 400 mm / 500 mm or customized
Surface	Smooth, clean, no obvious scratch
Edge Condition	Deburred edge / round edge / slit edge
Coil Weight	According to customer requirements
Standard	According to applicable industry standard or customer agreement
MOQ	To be negotiated
Supply Ability	Customized production available

Thickness and Width Tolerance:

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

Note: Tolerance can be adjusted according to product size, production condition and customer requirements.

Burr and Edge Collapse Tolerance

Item	Requirement
Burr height	≤ 0.03 mm
Edge collapse	≤ 0.05 mm
Edge condition	Smooth and neat
Optional processing	Deburred edge / round edge available

Note: Edge quality can be controlled according to winding requirements and technical agreement.

Typical Chemical Composition (%)

Alloy	Al (%) Min	Si (%) Max	Fe (%) Max	Cu (%) Max	Mn (%) Max	Mg (%) Max	Zn (%) Max	Others Max
1050	99.50	0.25	0.40	0.05	0.05	0.05	0.05	0.03 each / 0.10 total

Note: Chemical composition is for reference only and may vary slightly depending on the applicable standard.

Typical Mechanical Properties (O Temper)

Alloy	Temper	Tensile Strength (MPa)	Elongation (%)
1050	O	60 – 95	≥ 20

Note: Mechanical properties may vary with thickness, processing condition and product

specification.

Electrical Conductivity

Alloy	Conductivity (%IACS)
1050	≥ 61.0

Note: Conductivity can be supplied according to customer technical requirements.

Main Features of 1050 Aluminum Strip For Transformer:

- High purity aluminum material
- Good electrical conductivity
- Excellent ductility and formability
- Soft O temper suitable for winding
- Smooth surface and neat edge condition
- Accurate thickness and width tolerance
- Low burr and controlled edge collapse
- Custom specifications available

Typical Applications of 1050 Aluminum Strip For Transformer:

Transformer winding
Dry-type transformer coils
Oil-immersed transformer coils
Distribution transformers
Power transformers
Electrical conductor components

Advantages for Transformer Winding:

Compared with general aluminum strip, 1050 aluminum strip for transformer winding requires better control of softness, edge quality and dimensional consistency. Good ductility helps improve winding efficiency, while smooth surface and low burr help reduce insulation damage risk during processing. With reliable conductivity and customized size options, 1050 aluminum strip is a practical choice for transformer manufacturers.

Production Flow:

Raw Material Inspection → Rolling → Annealing → Precision Slitting → Surface & Edge Inspection
→ Performance Testing → Rewinding & Packaging

Quality Control

1050 aluminum strip for transformer winding is manufactured through strict process control, including raw material inspection, precision slitting, annealing treatment and final dimensional inspection.

Each coil can be checked for:

Thickness tolerance

Width tolerance

Surface quality

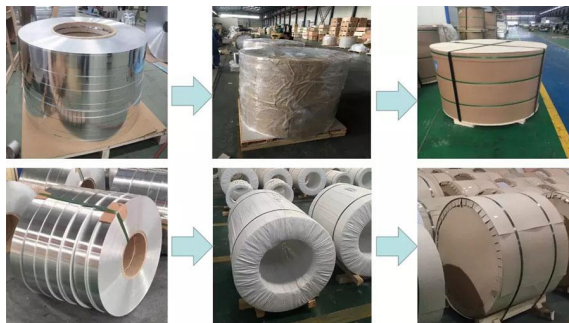
Edge condition

Coil neatness

Mechanical performance

Electrical conductivity

Packaging



- Coil packaging
- Moisture-proof protection
- Export-standard wooden pallet or wooden case
- Customized packaging available upon request