



# Ganzhou Aluminium Co.,Ltd

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## ALUMINIUM STRIP FOR TRANSFORMER

Aluminum foils strips for transformers, also called aluminum transformer strips foils, which are mainly used in the dry type and oil-immersed transformers winding.

The aluminium foils strips for transformers range from 0.2 mm to 3.5 mm thickness and 10 mm to 1600 mm width.

The transformer aluminum strip is divided into different grades, specifications and states according to the application. The grades are: 1060, 1050, 1050A, 1060, 1070, 1070A, 1350, state: O state. O represents a soft state, and the degree of hardness and hardness, and the degree of annealing can be indicated by numbers. The thickness is between 0.08 and 3.00, and is called: aluminum tape and foil for dry transformers. The aluminum ribbon and foil for dry-type transformers are made of high-quality pure aluminum. They have high electrical conductivity and soft texture. The surface is smooth and burr-free. It is an ideal material for the production of dry-type transformers and a key raw material for manufacturing transformer windings. Many technical indexes such as electrical conductivity of aluminum strip and foil, burr curling, side bending and surface quality are required.

The coils are wound over insulating material like paper, kraft paper, polyester film or glass cloth.

With high conductivity, good corrosion resistance and beautiful appearance, aluminum foils strips for transformers are essential materials in the process of producing transformers.

## Technical Specifications

- ◆Alloy: 1050/1060/1080/1100/1350
- ◆Temper: O H12,H14,H16,H18
- ◆Thickness: 0.2mm–3.5mm
- ◆Width: 20–1200mm
- ◆Packing: Eye to wall and eye to sky, wooden pallet and wooden case
- ◆U. T. S: 60-95N/mm<sup>2</sup>
- ◆Elongation: >25%
- ◆Max. Resistance in 20 degree:  $\leq 0.02825\Omega$  Mm<sup>2</sup>/m
- ◆Density in 20 degree: 2.703kg/dm<sup>3</sup>
- ◆Burr's height: 0.01–0.03mm vary with thickness of the strip
- ◆Collapsed side's height: 0.05–0.1mm
- ◆Surface: Free of oil,free of scratches



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## Chemical composition

| 1050 O Aluminum Foils Strips Chemical Composition(%) |       |        |       |        |        |        |      |        |        |
|--|-------|--------|-------|--------|--------|--------|------|--------|--------|
| Element  | Al    | Si     | Fe    | Mg     | Zn     | Mn     | Ti   | Cu     | V      |
| Standard Value                                       | ≥99.5 | 0.0431 | 0.203 | 0.0013 | 0.0093 | 0.0104 | 0.02 | 0.0022 | 0.0039 |
| 1060 O Aluminum Foils Strips Chemical Composition(%) |       |        |       |        |        |        |      |        |        |
| Element  | Al    | Si     | Fe    | Mg     | Zn     | Mn     | Ti   | Cu     | V      |
| Standard Value                                       | ≥99.6 | 0.0431 | 0.203 | 0.0013 | 0.0093 | 0.0104 | 0.02 | 0.0022 | 0.0039 |
| 1070 O Aluminum Foils Strips Chemical Composition(%) |       |        |       |        |        |        |      |        |        |
| Element  | Al    | Si     | Fe    | Mg     | Zn     | Mn     | Ti   | Cu     | V      |
| Standard Value                                       | ≥99.7 | 0.0431 | 0.203 | 0.0013 | 0.0093 | 0.0104 | 0.02 | 0.0022 | 0.0039 |
| 1350 O Aluminum Foils Strips Chemical Composition(%) |       |        |       |        |        |        |      |        |        |
| Element  | Al    | Si     | Fe    | Mg     | Zn     | Mn     | Ti   | Cu     | V      |
| Standard Value                                       | ≥99.5 | 0.0431 | 0.203 | 0.0013 | 0.0093 | 0.0104 | 0.02 | 0.0022 | 0.0039 |

## Mechanical Property:

U.T.S: 75-95N/mm<sup>2</sup>

Enlongation:>25%

Density in 20°C: 2.703kg/dm<sup>3</sup>

Max.resistance in 20 °C : ≤ 0.02825 Ω mm<sup>2</sup>/m

Electric conductivity% at 20°C: min.62.5

Bending 180 buckling inside radius:close contact

## Typical areas of use

Aluminum Strip for transformer winding can be used for variable transformer like low or high voltage transformer winding, high frequency transformer,step up or down voltage transformer, distribution transformers, reactor and etc.