Aluminium strip

We are providing our customer a wide range of Aluminium strip, which are manufactured from high grade quality raw materials. These Aluminium Slit Coils are widely known for its durability and quality. These Aluminium Slit Coils are available at industrial leading price. They are widly used in calbe wrapping, aluminium plastic composite pipe, electrical transformer, radiators, flexible pipe, venetian blinds, lamp cap, making closures etc.

| Alloy | Temper | Thickness(mm) | Width (mm) | Coil ID(mm) | Application |
|---|-----------------------|---------------|---------------|---------------------------|---|
| 1100,1050, 1060,1070, 3003,3105, 3004,5052, 8011, | O,H12,H14 ,H16,H18 | 0.02~4.00 | 5~100 | 75, 150, 300, 400, 500 | Cable,cosmetic cap, aluminum composite, pipe, aluminum hose or tube, electrical transformer, shutter,aluminum battery |
| 8011,1235, 1060,1100, | 0 | 0.10~0.20 | 100~3 00 | 75,150 | Cable Wrapping |
| 1060, 1100, 8011 | O, H22 | 0.20~1.5 | 30~25 0 | 75 | Aluminum plastic composite pipe |
| 1060, 1070 | 0 | 0.20~2.0 | 100~1 200 | 150, 300, 400, 500 | Low voltage electrical transformer |

| 8011 | H18, H19 | 0.08~0.10 | 140~6 00 | 75,150 | Water tank radiator in Automobile |
|------------|----------|------------|-------------|---------|--|
| 8011 | 0 | 0.10~0.13 | 60 | 75 | Aluminum tube for kitchen ventilator |
| 5052, 3004 | H19 | 0.125~0.25 | 15~10 0 | 300 | Roller shutter |
| 3004 | 0 | 0.25~0.40 | 85~40 0 | 75, 150 | Aluminum lamp base |

1. Aluminium strip for closures

A shiny end, in many shapes and colors. Aluminium has exactly the properties that closures need.

| Dimensions | | | | | | | | | | | |
|------------------------------------|-------------------------------------|------------------------|---------------|--|--|--|--|--|--|--|--|
| Parameter | Range | Standard | Tolerance | | | | | | | | |
| Thickness (mm) | 0.18 — 0.25 | 0.18, 0.20 | +0.005/-0.005 | | | | | | | | |
| Width (mm) | 50 — 1250 | 813, 845, 833.8,835 | +0.5, -0 | | | | | | | | |
| Length (mm) | 400 — 1000 | 655,706 | +0.5, -0 | | | | | | | | |
| Diagonal difference for sheet (mm) | 1 max | - | - | | | | | | | | |
| Coil sizes (mm) | OD: 1450 max ID: 75,150,300, 508 | - | - | | | | | | | | |
| Coil density (kg/mm) | 3.5 max | - | - | | | | | | | | |

Key features

• Aluminium is impermeable to light and gas, it can be easily formed and it combines well with other materials.

- We supply plain as well as lacquered strip and sheet made from alloyed aluminium in thicknesses ranging from 0.180 to 0.250 mm.
- This high quality material can be used in conjunction with a wide range of lacquering systems to create functional and well-styled solutions for the catering industry and for domestic purposes.

Custom design

- The material can be used in conjunction with a wide range of colours to create well-designed, functional solutions to meet customers' style requirements.
- New surface appearances, designed to safeguard intactness and ensure high product recognition, are currently being evaluated.

Application areas

- Screw caps for pressurized and unpressurized beverages, including carbonated soft drinks and spirits.
- Pharmaceutical caps for bottles and special applications.
- Dental cartridges.

2. Aluminium Strip for heat exchangers

Well tempered

In our rolling mills, we produce strip and sheet for heat exchangers which overcome every challenge with ease — be it for heating, ventilation or refrigeration, or to keep mobility well tempered.

Key features

- Good thermal and electrical conductor
- Corrosion resistant
- Lightweight and strong
- Numerous surface functions and treatments
- Good welding and adhesive bonding properties

• Recycable

Product details

| | | | | | Mecha | anical prop | erty | |
|--------------------|---------------------|---------------|-----------|--------|------------------|-------------|-------|---------------------------------|
| | Temp | Thick | Tolerance | Clad | Tensile | Yield | Elong | |
| Alloy | er | ness(| (mm) | ratio(| strength | strength | ation | Application |
| | GI | mm) | (111111) | %) | σb | σρ0.2 | δ(%) | |
| | | | | | (MPa) | (Mpa) | min | |
| 3003 | H14 | 0.08~0. | ±0.005 | None | 150~ 200 | ≥120 | 1 | Evaporator fin and plate |
| 3003 | H26 | 0.3~0.3 | ±0.015 | None | 190~ 220 | ≥160 | 8 | Glass mounting bracket material |
| 3003 | H14 | 0.06~0. | ±0.005 | None | 150~ 200 | ≥120 | 1 | Radiator fin and |
| 4343/3003/ 4343 | H14 | 0.06~0. | ±0.005 | 8~12 | 150~ 200 | ≥120 | 1 | plate |
| 4343/3003/ 4343 | H14 | 0.08~0. 12 | ±0.005 | 8~12 | 150~ 200 | ≥120 | 1 | Parallel condenser fin |
| 4343/3003/ 4343 | H14 | 0.1~0.1 | ±0.005 | 8~12 | 150~ 200 | ≥120 | 1 | Charge air cooler |
| 4045/3003/ 4045 | 4045/3003/ H14 0.1~ | | ±0.005 | 8~12 | 150~ 200 ≥120 | | 1 | material |
| 1060 | 0 | 0.35~0. 4 | ±0.02 | None | 55~95 | ≥15 | 25 | Air cooling fin |
| 1100 | 0 | 0.35~0. 4 | ±0.02 | None | 75~105 | ≥25 | 25 | material for tubes |
| 3003 | 0 | 0.2~0.3 | ±0.01 | None | 100~ 150 | ≥45 | 15 | |
| 3003 | H16 | 0.5~0.7 | ±0.02 | None | 150~210 | ≥120 | 1 | |
| 4047 | H18 | 0.05~0. 1 | ±0.005 | None | ≥200 | ≥170 | 0.5 | Aluminum for heating element |
| 4A13 | H18 | 0.05~0. 1 | ±0.005 | None | ≥190 | ≥16 | 0.5 | |
| 4104 | H18 | 0.05~0. 1 | ±0.005 | None | ≥220 | ≥190 | 0.5 | |
| 3003(inner fin) | 0 | 0.2~0.3 | ±0.007 | None | 100~ 150 | ≥45 | 15 | 01.5 |
| 6951(inner fin) | 0 | 0.2~0.3 | ±0.007 | None | 115~165 | ≥50 | 15 | Oil cooler |

| 3003(extern al fin) | H14 | 0.1~0.1 5 | ±0.005 | None | 150~200 | ≥120 | 1 | | |
|---------------------|-----|---------------------|-----------------|-----------------|----------------|------|----|----------------------------|--|
| 3003(inner fin) | 0 | 0.2~0.3 | ±0.007 | None | 100~ 150 | ≥45 | 15 | | |
| 3003(inner fin) | H12 | 0.2~0.3 | ±0.007 | None | 120~ 160 | ≥85 | 2 | Engineering machinery | |
| 3003(extern al fin) | H14 | 0.1~0.1 5 | ±0.005 | None | 150~200 | ≥120 | 1 | | |
| | | | Performar | nce index of | plate material | | | | |
| 4343/3003 | 0 | 1.2~3 | ±0.03 | 5~10 | 100~ 150 | ≥45 | 25 | Radiator fin and | |
| 4343/3003/ 7072 | 0 | 1.2~3 | ±0.03 | 5~10 | 5~10 ~150 ≥45 | | 25 | plate | |
| 4343/3003/ 4343 | 0 | 0.4~0.5 | ±0.02 | 8~12 | 100~ 150 | ≥45 | 27 | Evaporator fin and | |
| 4045/3003/ 4045 | 0 | 0.8~1.2 | ±0.03 | 8~12 | 100~ 150 | ≥45 | 27 | plate | |
| 4045/3003/ 4045 | 0 | 2~3 | ±0.05 | 8~12 | 100~ 150 | ≥45 | 25 | Charge air cooler material | |
| 4045/3003/ 4045 | 0 | 0.5~0.8 | ±0.02 | 15~20, 10~15 | 100~ 150 | ≥45 | 25 | Ollaradas | |
| 4104/3003/ 4104 | 0 | 0.5~0.8 | ±0.02 | 15~20, 10~15 | 100~ 150 | ≥45 | 25 | Oil cooler | |
| 4104/3003/ 4104 | H14 | 0.6~0.8, 1.2~1.5 | ±0.02, ±0.03 | 13~17, 8~12 | 150~ 200 | ≥120 | 3 | Engineering machinery | |

In mechanically joined heat exchangers, high formability is essential to the trouble-free production of collar fins. We supply unclad materials like EN AW-1050, EN AW-1100, EN AW-1200, EN-AW 8006 or EN AW-8011, the production of which is tailored to meet this highly exacting requirement in fin forming.

Application areas

• Automotive heat exchangers

We deliver:

- Clad tube stock for radiators, charge air coolers and heaters
- Clad fins for condensers
- Clad tube plates for evaporators and oil coolers
- Clad header plates and side plates for various types of heat exchangers
- Unclad fins for radiators, charge air coolers, heaters, condensers, evaporators and oil coolers

3. Aluminium strip for venetian blinds

Anyone seeking shade from the sun places great emphasis on the effectiveness and quality of the products on offer. Aluminium venetian blinds provide the best possible shade from the sun, heat and from prying eyes.

| | Aluminium strip for venetian blinds | | | | | | | | | | | | |
|--|-------------------------------------|-----|------------|--------|-----|--|--|--|--|--|--|--|--|
| Product Alloy Temper Thickness Width Diameter Rema | | | | | | | | | | | | | |
| Aluminum Shutter | 5052, 3005 | H19 | 0.125-0.25 | 15-100 | 300 | | | | | | | | |

Key features

- Due to the rigid and lightweight design, aluminium venetian blinds are often used as sunshades.
- The quality of aluminium venetian blinds largely depends on the grade of the re-roll stock used.
- Hydro offers a proven standard alloy which provides high strength at reduced thickness.
- State-of-the-art rolling and slitting lines guarantee the tight-tolerance manufacture of strip with an outstanding surface finish and perfect cut edges.

4. Aluminium insulation and cable foil

http://www.hydro.com/en/Products/Rolled-products/Strip-and-sheet-for-building/Insulation-and-cable-foil/

The barrier properties and heat reflectivity of aluminium foil are widely used in building panels to improve insulation performance in modern building systems.

| | Dimensions | | | | | | | | | | | | | |
|------------------|------------|----------------------|------------|---------------------|------------------------|---------------------------------|--|--|--|--|--|--|--|--|
| Alloy (AA) | Temper | Thickness range (mm) | Width (mm) | Coil i.d. (mm) | Thickness tolerance | Length | | | | | | | | |
| 1200 and 8011 | 0, H18 | 0.17 — 0.20 | 720 — 1220 | 203, 300 and 508 | +/- 0.01 mm | Equivalent to 2 km or multiples | | | | | | | | |

The barrier properties and heat reflectivity of aluminium foil are widely used in building panels to improve insulation performance in modern building systems.

Key features

- Aluminium foil is used as a skin for heat-insulating and incombustible materials to provide high performance insulation for pipe work and ducting.
- The adhesive tape used to secure the laminated material is based on aluminium foil or its reflective surface, corrosion-resistance and long life.
- In electrical cables, aluminium foil helps give long-term insulation against moisture and attack from naturally occurring corrosive elements found above and below ground.
- Aluminium foil also acts as an insulator against the magnetic and radio frequency emissions associated with electrical cables.
- As a sheath for fiber-optic cables, aluminium foil uses its electrical conductivity to act as a "tracer" to enable testing of the integrity of cable links - as well as helping to provide the long-term protection every cable needs.
- In fire walls for vehicles and fireproof doors and building panels, aluminium foil stops access to the oxygen required to support flames.

Application areas

- Fire walls
- Fire doors
- Fibre optic cables
- Electrical cables

5. Aluminium strip for tagger lids

| | Dimensions | | | | | | | | | | | | | |
|---------------|------------|----------------------|------------|---------------------|------------------------|---------------------------------|--|--|--|--|--|--|--|--|
| Alloy (AA) | Temper | Thickness range (mm) | Width (mm) | Coil i.d. (mm) | Thickness tolerance | Length | | | | | | | | |
| 8011 | H16 | 0.20-0.30 | 1200 | 203, 300 and 508 | +/- 0.01 mm | Equivalent to 2 km or multiples | | | | | | | | |

Key features

- Impermeable to oxygen and light.
- Quality of the contents remains unimpaired, ensuring a long shelf-life.
- Cans are easily opened by means of scored or tear-off systems.
- Physiologically harmless meets all valid food law requirements.
- Our strip for tagger lids offers many favourable properties: It can be hermetically closed, it facilitates easy opening and guarantees the product a long shelf-life.

Custom design

- We supply pure aluminium strip, either with a clear, protective lacquer coating or with a heat-seal lacquer coating, in thicknesses from 0.060 to 0.120 mm.
- Haomei produces aluminium strip lacquered with a protective coating on both sides for "Penny Lever Closures" or coated with a heat-sealing lacquer on one side for "Peel-off" applications.
- Lids of this "Peel-off" quality can be opened very easily by means of the pre-formed easy open ring or tear-off tab. The lid detaches completely from the can.

Application areas

- Packaging of powdered foodstuffs (milk, coffee, granulated beverages).
- Dry products (tobacco, mixed spices).

6. Aluminium strip for transformer

AT ISSUE

There is a common misconception that a distribution transformer with copper windings is in some way more efficient, more reliable, or has higher short circuit strength when compared to a transformer with aluminum windings.

RECOMMENDATION

Improvements in technology regarding the use of aluminum in transformers have made aluminum-wound transformers the ideal choice for today's applications.

RATIONALE

Operating Cost - Cooper Power Systems designs aluminum-wound transformers with windings of a larger cross-sectional area than would be used for a copper wound unit. This larger cross-sectional area translates to a lower current density, and an equivalent operating temperature. By reducing the current density in the windings, a low-loss design can be achieved with aluminum or copper windings.

Reliability - A transformer's life is defined by the life of its insulation system. Because Cooper aluminum-wound and copper-wound units run at equivalent operating temperatures, the insulation systems age at the same rate for each design.

Lower Cost First - Whether low losses are the goal or not, aluminum windings are less expensive than copper windings. The following example shows two equivalent-loss designs, on with aluminum windings and one with copper windings.

| | ALUMINIUM STRIP FOR TRANSFORMER | | | | | | | | | | | | | |
|--------------|---|---------|---------|---------|---------|--|--|--|--|--|--|--|--|--|
| Alloy/Temper | Alloy/Temper 1050-O, 1060-O, 1070-O, 1350-O | | | | | | | | | | | | | |
| Thickness | 0.2-0.4 | 0.4-0.8 | 0.9-1.1 | 1.2-1.6 | 1.8-2.5 | | | | | | | | | |
| tolerance | ±0.01 | ±0.015 | ±0.02 | ±0.025 | ±0.03 | | | | | | | | | |

| Width | <100 | 100-200 | 100-200 201-500 | | 501-1250 | >1250 |
|--------------|------------------------------|--------------|-----------------|------------------|-----------------------------|-------|
| tolerance | ±0.1 | ±0.2 ±0.2 | | | ±1 | ±2 |
| | | BURR AND CO | OLLAPSE | | | |
| The width of | aluminium strip | eight | | Collapsed side's | height | |
| | <0.2 | 0.01 | | | | |
| 0. | 2-1.0 | 0.01 | 5 | ≥0.05-0.1 | | |
| 1. | 1-1.5 | 0.02 | 2 | | | |
| | >1.6 | 0.03 | 3 | | | |
| |] | MECHANICAL 1 | PROPERTY | Y | | |
| | U.T.S: 60-951 | | Elongation: > | 25% | | |
| | | | | 20℃:≤ | | |
| | Density in 20° C: 2 | .703kg/dm3 | | | $0.02825\Omega \mathrm{mm}$ | n2/m |

7. Aluminium strip for Semi-rigid aluminium flexible duct

An extremely flexible reinforced aluminium foil flexible supply or extract ventilation ducting. Multi-ply aluminium and polyester laminate construction supported by a high tensile steel wire helix. Fire resistant.

| | Aluminium strip for Semi-rigid aluminium flexible duct | | | | | | | | | | | | | |
|--|--|---|--------------|------|-----------|---|--|--|--|--|--|--|--|--|
| Product Alloy Temper Thickness Width Diameter Remark | | | | | | | | | | | | | | |
| aluminium flexible duct | 8011 | 0 | 0.08-0.13 mm | 60mm | 75, 150mm | Special width can be made. according to your demands. | | | | | | | | |

| | | | | (Chemical Composition)% | | | | | | | | | Tensile | | | |
|-----|------|------|-----|-------------------------|-----|-----|-----|---|-----|-----|-----|-------|---------|-------|---------|----------------|
| All | 0. | _ | | | | | _ | N | į | Oti | her | | Tem | Thick | Strengt | Elong ation |
| оу | Si | Fe | Cu | Mn | Mg | Cr | Zn | i | Ti | Ea | To | Al | per | ness | h(Mpa) | % |
| | | | | | | | | | | ch | tal | | | | | |
| 80 | 0.50 | 0.6- | 0.1 | 0.2 | 0.0 | 0.0 | 0.1 | | 0.0 | 0.0 | 0.1 | Rema | | 0.01 | 50 105 | 1.00 |
| 11 | -0.9 | 1.0 | 000 | 00 | 50 | 50 | 00 | _ | 800 | 5 | 5 | ining | О | 0.01 | 50-105 | 1.00 |

8. Aluminium strip for lamp cap

Our lampcap materials combines strength and high formability with high resistance to softening in vitriting. Manufactured at modern and well-equipped mills, it can be rolled to very fine tolerances, allowing more caps per tonne of coil and enabling uninterrupted operations of high-speed forming presses.

LAMP BASE MATERIALS

| Specification (mm) | | | | | | |
|--------------------|---|-------------|--------|---------|--|--|
| Alloy Temper | | Thickness | Width | Coil ID | | |
| 3004 | 0 | 0. 25-0. 40 | 85-400 | 75 150 | | |

Remark: Special specifications can be produced according to your requirement.

TECHNICAL DATA SHEET

1. CHEMICAL COMPOSITION:

| Alloy | Si | Fe | Cu | Mn | Mg | Cr | Ni | Zn | Ga | Ti | Al |
|-------|------|------|------|---------|---------|------|------|------|----|------|-------|
| 3004 | € | ≤ | € | 1.0-1.5 | 0.8-1.3 | € | € | € | - | € | other |
| 3004 | 0.30 | 0.70 | 0.25 | | | 0.05 | 0.05 | 0.25 | | 0.05 | |

2. MECHANICAL PROPERTY

| Alloy Temper | | Thickness(mm) Width(mm) | | U.T.S(Mpa) | Elongation(%) | |
|--------------|---|-------------------------|--------|------------|---------------|--|
| 3004 | О | 0.25-0.40 | 85-400 | 155-200 | ≥13 | |

3. TOLERANCE

| Thickness | Width |
|---------------|--------------|
| ± 0.01 mm | ± 0.5 mm |