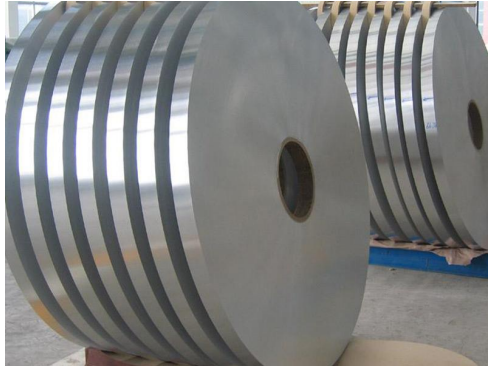


Aluminum Strip for Cable Armoring



Aluminum strip for cable armoring is used in the cable manufacturing industry as a mechanical protection layer for armored cables. It helps protect the cable core from external pressure, impact, bending stress and environmental corrosion.

For cable armoring applications, 5052 and 5154 aluminum alloys are commonly selected because they provide better mechanical strength and corrosion resistance than pure aluminum series.

These alloys are especially suitable for armored cable structures requiring good forming performance, stable bending behavior and long-term protection.

Our aluminum strip for cable armoring is available in 5052 and 5154 alloys, with O and H24 temper, and common thickness range from 0.3mm to 0.8mm. The material can be supplied with smooth surface, accurate thickness, stable coil shape and controlled edge quality to support continuous cable armoring production.

It is suitable for different cable armoring processes, including wrapping, forming and interlocking armored cable production.

Specifications of Aluminum Strip for Cable Armoring:

Product	Aluminum Strip for Cable Armoring
Alloy	5052 / 5154
Temper	O / H24
Thickness	0.3mm – 0.8mm
Width	Customized
Surface	Smooth, clean, mill finish
Edge Condition	Slit edge / trimmed edge / deburred edge
Coil Inner Diameter	50-300mm

Coil Outer Diameter	500-800mm
Coil Weight	Customized
Thickness Tolerance	± 0.02 mm or according to customer requirement
Width Tolerance	± 0.1 mm or according to customer requirement
Application	Armored cable, cable armoring, interlocking armored cable
Packaging	Wooden pallet, wooden case, export seaworthy package

Note: Width, coil ID, coil weight, tolerance, edge condition and packaging can be customized according to customer cable production line requirements.

Alloy Selection

5052 Aluminum Strip for Cable Armoring

5052 aluminum strip is an Al-Mg alloy with good corrosion resistance, medium strength and excellent forming performance. It is widely used in cable armoring applications where mechanical protection and stable processing performance are required.

Features of 5052 Aluminum Strip

- Good corrosion resistance
- Medium mechanical strength
- Good bending and forming performance
- Suitable for cable armoring and wrapping
- Stable performance in continuous production

5154 Aluminum Strip for Cable Armoring

5154 aluminum strip is also an Al-Mg alloy. Compared with some common aluminum alloys, it offers good strength, corrosion resistance and durability. It is suitable for cable armoring applications requiring stronger protection and better performance in demanding environments.

Features of 5154 Aluminum Strip

- Good strength
- Excellent corrosion resistance
- Good fatigue resistance
- Suitable for armored cable protection
- Good performance for forming and interlocking applications

Features of Aluminum Strip for Cable Armoring

- Good mechanical strength
- Excellent corrosion resistance
- Good bending and forming performance
- Suitable for armored cable production
- Suitable for interlocking armored cable applications
- Smooth and clean surface
- Accurate thickness tolerance
- Stable coil winding and unwinding performance
- Custom width and coil size available
- Slit edge, trimmed edge and deburred edge available

Applications of Aluminum Strip for Cable Armoring

5052 and 5154 aluminum strip for cable armoring can be used for:

- Armored cables
- Interlocking armored cables
- Power cables
- Control cables
- Industrial cables
- Building wires and cables
- Communication cables
- Special cables
- Cable mechanical protection layer
- Cable wrapping and forming layer

It is mainly used to improve cable mechanical protection, bending resistance, corrosion resistance and service life.

Why Use 5052 / 5154 Aluminum Strip for Cable Armoring?

Compared with ordinary pure aluminum strip, 5052 and 5154 aluminum strip provide better strength and corrosion resistance. This makes them more suitable for cable armoring applications where the cable needs reliable mechanical protection and long-term durability.

Main Benefits

- Better strength than 1xxx series aluminum
- Good corrosion resistance
- Suitable for cable armoring and interlocking structures
- Good balance between formability and protection
- Helps reduce cable weight compared with steel armoring
- Suitable for continuous cable production

Stable performance during bending and forming

Surface and Edge Requirements

Surface Quality

For cable armoring production, aluminum strip should have a clean and smooth surface to ensure stable forming and avoid production defects.

Available surface condition:

Smooth mill finish

Clean surface

No serious scratches

No cracks

No peeling

No heavy oxidation

No oil stains affecting production

Edge Condition

Edge quality is important for cable armoring, especially for continuous production and interlocking applications.

Available edge types:

Edge Type	Description
Slit Edge	Standard edge after slitting
Trimmed Edge	More uniform edge condition
Deburred Edge	Reduced burrs, better for cable production
Customized Edge	According to customer requirement

For interlocking armored cable production, stable edge quality is especially important.

Quality Control

Before shipment, the aluminum strip for cable armoring can be inspected for:

Alloy verification

Temper inspection

Thickness measurement

Width measurement

Surface quality

Edge burr condition

Coil shape

Mechanical properties

Tensile strength

Elongation

Packaging condition

Material test certificate can be provided according to customer requirements.

Packaging

To protect the aluminum strip during transportation, we provide suitable export packaging.

Common packaging options include:

Plastic film wrapping

Moisture-proof paper

Edge protection

Wooden pallet

Wooden case

Eye-to-wall packing

Eye-to-sky packing

Customized label and shipping mark

Packaging can be customized according to coil size, transportation method and customer handling requirements.

