

Aluminum Jacket | Aluminum Jacketing | Haomei

Aluminum Jacket is produced from 1060, 1100, 3003, 3105 or 5005 series aluminum conforming to ASTM-B209. The properties of the aluminum jacketing provide the strength to resist in-service abuse but can be easily fabricated and installed. The sharp appearances of both aluminum roll jacketing are a necessity for any insulation project. Aluminum Jacket is available with the interior side plain or with either of the following moisture protection membranes.

Specification of aluminum jacketing:

Alloy: 1050, 1060, 1100, 1200, 3003, 3015, 5005

Temper: H14, H16, H24, H26,

Thickness: 0.4mm-1.5mm

Standard width: 914mm 1000mm 1200mm 1219mm

Surface: Plain, Flat, Mill finish, Smooth, Stucco embossed

Coatings: PE/PVDF Coated, PolySurlyn Polykraft paper Laminated

Kraft paper thickness: about 0.1mm

Polysurlyn thickness: about 0.076mm (3mil)

Inner diameter: 305mm, 405mm or 505mm with paper core or without core

Out diameter: 125m, 150m, 250m ,300m, 500m, 1000m, 2540m or according to coil weight

Quality standard: ASTM B209 EN573-1

Quantity: have ready stock, small quantity order are acceptable.

Application: Industrial insulation jacketing, cover, insulation protective jacketing

Alloy	Temper	Thickness (inch)	Thickness (mm)	Width (mm)	Length (m)	Suggested Application
1100, 1060, 3003, 3105, 5005	H14,	0.012	0.3	914,	20,	OD below 36"(914mm) insulated pipe lines.
	H16,	0.016	0.4	1000	25,30,	OD below 36"(914mm) insulated pipe lines.
	H24,		0.4		60, 90,	OD below 36"(914mm) insulated pipe lines.
	H26	0.020	0.5	1219	coil	OD below 36"(914mm) insulated pipe lines.
		0.024	0.6			OD 36"-8'(914mm-2.43m) insulated pipe lines&equipment.
		0.032	0.8			Special applications where extra thickness and protection is required, such as fabricated tank head covers and other special fabrications.
		0.040	1.0			Special applications where heavy mechanical is required.
	0.050	1.2	Flat ducts or precipitators. Also recommended for areas subject to high wind conditions.			

Chemical Composition of aluminium jacket

Alloy	Si	Fe	Cu	Mn	Zn	Mg	Ti	Cr	Other Elements		Al
									Each	Total	

1060	0.25	0.35	0.05	0.03	0.05	0.03	0.03	-	0.03		99.6min
1100	Si+Fe=0.95		0.05-0.20	0.05	0.10	-	-	-	0.05	0.15	99.0min
3003	0.6	0.7	0.05-0.20	1.0-1.50	0.10	-	-	-	0.05	0.15	reminder
3105	0.6	0.7	0.30	0.30-0.80	0.40	0.20-0.80	0.10	0.20	0.05	0.15	reminder
5005	0.3	0.7	0.20	0.20	0.25	0.50-1.10	-	-	0.05	0.15	reminder

Classification of aluminum roll jacketing:

According to the surface finish, the three surface finishes available for aluminum jacketing: smooth, stucco embossed, and corrugated. All of these can be supplied with a painted exterior and has applications where it is recommended.

Smooth (Plain Mill) Finish

This is a very popular finish and is for the many end-users/specifiers who prefer the clean look of this finish. This finish sheds rain water the best.

1. Shield rain water the best.
2. Prevent damage such as physical abuse.
3. Prevent the dirt due to its smoothness.
4. It is highly reflective of sunlight.

Stucco Embossed Finish

This is another popular finish used for aluminum jacketing. The stucco-like surface texture hides small imperfections and scratches caused by physical damage during or after installation. This finish also reduces reflectivity while still looking very professional. Lastly, the use of stucco embossed finish provides a small increase to the rigidity and strength of the aluminum jacketing.

- 1, Increase its strength and ductility.
- 2, Extend its lifetime.
- 3, Better bribability, durability.
- 4, Effectively reduce rowing.
- 5, Not cause strong light reflecting.
- 6, Have a good vision effect.

Types of Moisture barrier :

Polysurlyn

Moisture Barrier (PSMB) is an engineered three layer coextruded film of polyethylene and DuPont Surlyn polymers with a total film thickness of 3 mils (76 μm). PSMB is heat laminated in the factory to the interior surface of all types of aluminum metal jacketing for mechanical insulation to help prevent pitting, crevice, and galvanic corrosion of the interior surface of the aluminium metal jacketing and the underlying insulated pipe, tank or equipment. Due to its superior performance characteristics, PFMB replaces the old moisture barrier technology of 1 to 3 mil thick polykraft.

Poly surlyn : Dupont surlyn, 3 mil thickness(76um)

Color: Blue

Aluminum sheet thickness : 0.3-1.5mm

Package: 20-30m/roll in one carton or big coil

Advantage: water-proof, prevent oxidation

Polykraft :

Polykraft consists of one layer of one mil polyethylene film with a protective layer of 40# virgin kraft paper. The moisture barrier is factory applied by attaching the aluminum jacketing by continuous lamination to the full width of the metal. The moisture barrier is used to prevent moisture and corrosives in the insulation from coming into direct contact with the aluminum metal jacketing surface and causing galvanic or chemical corrosion.

Kraft-paper: 166g/m²

Color: khaki

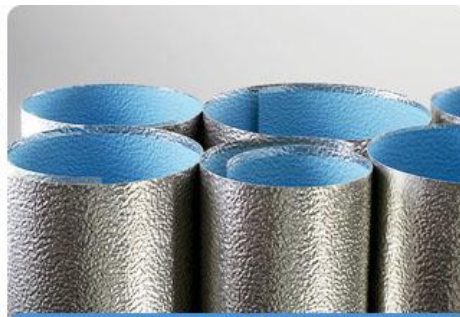
Aluminum sheet thickness: 0.3-1.5mm

Package: 20-30m/roll in one carton or big coil

Advantage: water-proof, prevent oxidation



Plain Jacketing roll



Stucco Embossed



Polysullyn Moisture Barrier



Polykraft Moisture Barrier

Features of aluminium jacketing are:

1. Customized packaging solutions for extended shelf life.
2. Excellent barrier against moisture, oxygen & odour.
3. Excellent mechanical properties even at low thickness.
4. High burst strength and puncture resistant.
5. Light weight: Aluminum is about 1/3 weight of iron or steel, making it easier to handle and less expensive to ship.
6. Strong: the tensile strength can be 85-120Mpa, and can satisfy most of insulation jacketing needed.
7. Corrosion resistant: they do not rust.
8. Easy to fabricate & assemble.

Application of aluminum jacketing sheet roll:

Aluminum jacketing is recommended for use in all of the following insulation system applications:

- Standard outdoor use on all pipe, vertical tank insulation systems up to 8 ft outer diameter, and all horizontal tanks.
- Indoor insulation system applications up to 8 ft outer diameter where increased damage resistance is desired.



Why Choose Us :

1. Verified supplier:

We are verified supplier, with quality assurance. Production process is approved by SGS and BV.

2. Price Competitive:

We provide factory price to save your purchase cost.

3. Customized size:

We can produce any size according to clients requirement. We further provide clients with aluminium sheet/coil further process, such as anodizing, brush, polish, stucco emboss, corrugation, mirror, color coating etc.

4. Safe package and Fast delivery:

About 25-40 days after receipt client LC or deposit.

5. Existing clients reference:

Our aluminium products are exported to all over the world, we can give you our existing customer name in your region for you to check our company and our quality.

6. Free samples:

Haomei supply free sample available for test at first.

7. After sales service:

We have good reputation for all customer; If any quality problem with third party inspection report, We will take full responsibility.