

Aluminium Cladding For Pipe Insulation | Haomei

Aluminium cladding for pipe insulation is manufactured from alloys 1060, 3003, 3105 and 5005, conforming to ASTM B-209 designation, half-hard temper H-14 and H-16.

Commercially pure aluminum is relatively soft as structural material. Its strength can be greatly improved by alloying aluminum with small percentages of one or more other elements such as manganese, silicon, copper, magnesium, or zinc. Additional strength can be achieved by cold working, such as cold rolling.

Specification of aluminum cladding for pipe insulation:

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 or 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

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, 1000 , 1219	20, 25,30, 60, 90, coil	OD below 36"(914mm) insulated pipe lines.
	H16,	0.016	0.4			OD below 36"(914mm) insulated pipe lines.
	H24,	0.020	0.5			OD below 36"(914mm) insulated pipe lines.
	H26	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 pipe cladding:

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	remainder
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	remainder
5005	0.3	0.7	0.20	0.20	0.25	0.50-1.10	-	-	0.05	0.15	remainder

Features of aluminum pipe cladding 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 pipe insulation aluminum cladding:

- 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; If any quality problem with third party inspection report, We will take full responsibility.