

ALUMINIUM ROLL JACKETING

Product Description:

Insul-Global High Performance Aluminum Roll Jacketing is manufactured from 3003, 3105 Series Aluminum Alloys which is conforming to ASTM B 209 Standards. The product is cold-rolled to a half hard (H14 Temper) which provides additional strength to resist in probable misuse or handling during the installation or maintenance. The inner surface of the Aluminum is treated with a 3 mil PolySurlyn moisture retarder which prevents galvanic corrosion due to the dissimilar metal in the presence of moisture and also the chemical corrosion caused by installing over damp insulation materials. Also it has got excellent abrasion resistance during installation.

Moisture retardant film is laminated to Aluminum Sheet by uniformly applying heat and pressure over the surface. Polysurlyn Moisture Retarder is a co-extruded film of DuPont's Surlyn and Polyethylene. It is a 3 mil thick moisture barrier that is replacing the former industry standard Polykraft. Aluminum is considered to be the most ideal metal jacketing product due to its resistance to atmospheric corrosion & it is widely used in marine, chemical, industrial and other corrosive environments.



Insul-Global Metal Jacketing is available in smooth, stucco embossed and 3/16" corrugated finishes (cross crimped). These are available in various thicknesses such as 0.4mm, 0.5mm, 0.6mm, 0.8mm, 1.0mm and 1.2mm.

THICKNESS DIMENSIONS & SUGGESTED APPLICATIONS			
Thickness In MM	Width In MM	Length In Mtr (Coil)	Application
0.4	1000	30	Recommended for Pipe lines up to 24" OD including Insulation
0.5	1000	30	Recommended for Pipe lines up to 36" OD including Insulation
0.6	1000	30	Widely used on heavier diameter lines and equipments up to 8 feet
0.8	1000	30	Used for special and critical application where extra thickness and protection is required such as fabricated tank head cover
1.00	1000	30	These are available in rolls and used where extra heavy gauges are required such as flat ducts or precipitators. Widely used
1.2	1000	30	against high wind applications also

Insul-GLOBAL can also customize roll length based on client requirements. In addition, we can provide one full coil if required by client.

Global Energy Industrial Company

Bldg No. 4134-7061, Road 67 Lane 116, 2nd Industrial City, Dammam 34332, Kingdom Of Saudi Arabia
T: +966 13 893 3320, email: info@insulglobal.com.sa, Website: www.insulglobal.com.sa

ALUMINIUM ROLL JACKETING

InsulGLOBAL Aluminium Properties Sheet - ASTM B-209

General Description and Characteristics:

InsulGLOBAL Aluminum 3003, 3105 series alloys with H14 temper conforming to ASTM B-209 are widely used group of aluminum alloys. These alloys exhibit very good corrosion resistance and moderate strength. They are sea-water resistant due to high Manganese content

Finish:

They are available in smooth and corrugated finishes. They can be stucco embossed if there is a need for reduced glare.

Chemical Composition

A3003, 3105 Aluminum – ASTM B-209, H14

Grade	Silicon (SI)	Iron (FE)	Copper (CU)	Manganese (MN)	Magnesium (MG)	Chromium (CR)	Zinc (ZN)	Titanium (TI)	Others		Aluminium
3003	0.6	0.7	0.05-0.2	1.0-1.5	-	-	0.1	-	0.1	0.2	Remainder
3105	0.6	0.7	0.3	0.3-0.8	0.2-0.8	0.2	0.4	0.1	0.1	0.2	Remainder

Mechanical Properties

A3003, 3105 Aluminum – ASTM B-209, H14

Grade	Thickness	Ultimate tensile Strength (MPA) Min	Yield Strength 0.2% Proof (MPA) Min	Elongation (% on 50 MM) Min
3003	0.4-1.2	138	117	2-4
3105	0.4-1.2	150	124	1-2

Safety:

Aluminum and its alloys are inert and non-reactive when used correctly. Potential health and safety risks are extremely low. While handling sharp edges gloves should be worn to prevent injury.

Global Energy Industrial Company

Bldg No. 4134-7061, Road 67 Lane 116, 2nd Industrial City, Dammam 34332, Kingdom Of Saudi Arabia

T: +966 13 893 3320, email: info@insulglobal.com.sa, Website: www.insulglobal.com.sa