Aluminum Butyl Tape

Self-adhesive Anti-corrosion Protective Tape

Features

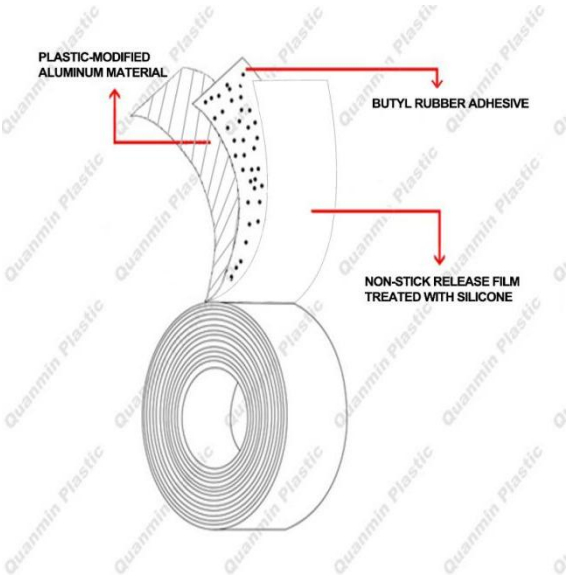
- Uniform and consistent coating thickness
- Self-healing repair
- Low-temperature resistant environment
- Long-term defense against ultraviolet rays

Our Aluminum Butyl Tape is a self-adhesive, anti-corrosion protective tape that utilizes butyl rubber adhesive. It features an outer layer of plastic-modified aluminum material and a non-stick release film treated with silicone.

Description

This tape is highly suitable for use in refrigeration, oil and gas, liquefied gas, cryogenic processes, and chemical industries. Its outstanding waterproof sealing and UV-resistant properties provide long-lasting anti-corrosion protection for pipes, elbows, and irregular components laid on the ground. Its excellent flexibility makes it ideal for construction applications.

All the performance characteristics of the product fully meet the ASTM and DIN standards.



Storage and Shelf Life

This product should be stored in a dry and well-ventilated place away from direct sunlight. The same environment must be maintained during transportation. The storage temperature range must not be lower than 10°C (50°F) and must not exceed 30°C (86°F), and the humidity must not exceed 90%. Keep upright and stack no more than five layers. The shelf life is 12 months (re-inspection is required if the expiration date is exceeded).

Project	T 8100-BR39	T 8120-BR47	T 8150-BR59	Test Method
Total Thickness	1.00mm (39.3mils)	1.20mm (47.2mils)	1.50mm (59.1mils)	ASTM D1000
Butyl Rubber Asphalt Adhesive	0.95mm (37.4mils)	1.15mm (45.3mils)	1.45mm (57.1mils)	ASTM D1000
Polyethylene Film	0.05mm (1.9mils)			ASTM D1000
The Softening Point of the Adhesive	>95°C (>203°F)			DIN 52011
Elongation of Adhesive at 23°C (73.4°F)	≥1000%			ASTM D1000
Tear Strength at 23°C (73.4°F)	≥29N/cm (≥16.6lbs/in)			ASTM D1000
Adhesion to Backing at 23°C (73.4°F)	≥30.5N/cm (≥278.66oz/in)			ASTM D1000
Adhesion to Metals	≥38N/mm^2 (≥0.38Mpa)			DIN ISO 4624
Water Absorption Rate at 23°C (73.4°F)	≤0.05% 24h			ASTM D570
Dielectric Strength	≥26KV			ASTM D149
Application Temperature	-34°C to +80°C (-29°F to +176°F)			
Max Serve Temperature	+85°C (+185°F)			
Available Roll Size (width * length)	50 to 600mm X 10 to 20m (1.97 to 23.62 in X 32.81 to 25.62ft), Customizable.			
Color	Primary aluminium color			

General Requirements for Applications

General: The area to be coated has to be cleandry, and free from oil, grease and dust. All contamination including mill-scale has to be removed.

Degreasing: Degrease surfaces with Toluene or Heptane and e.g. a lint-free cloth.

Preventing Condensation of Water: Before and during construction, the working surface temperature must always remain at least 3°C (37.4°F) above the dew point temperature.

Working Surface Temperature: The surface temperature of the operation should be maintained between 20°C and 40°C (68°F to 104°F) and preheating should be performed if necessary.

Application Instruction

Step 1

If the steel bare pipe is used, it should be cleaned to the SSPC-SP6/NACE3 or SA 2 standard (commercial grade sandblasting treatment) to form an anchor pattern profile of 25-76 microns (1-3 mils).

Step 2

Generally, before applying Aluminum Butyl Tape, a primer should be evenly applied to achieve a wet film thickness of 50.8 to 76.2 microns (2 to 3 mils). The primer should reach the "surface dry" state. Coating Aluminum Butyl Flashing Tape.

Step 3

Spiral winding, maintaining a neck reduction of 1 to 2 percent, usually used at 50 percent overlap, if modified, and not less than 25.4 mm (1 inch).

Step 4

Perform holiday detection per NACE SP0274 Handling and commissioning.

For more technical inquiries, please visit our website.

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