



Product Data Sheet

ASMACO ALU PET TAPE

High-Performance Aluminum Polyester Laminate Tape – ASTM E84-26a Tested for FSI & SDI

Description: ASMACO ALU PET TAPE is a laminated pressure-sensitive adhesive tape consisting of an aluminum foil layer bonded to a polyester (PET) film backing and coated with a high-performance adhesive. The composite construction combines the metallic characteristics of aluminum with the mechanical strength and dimensional stability of PET, resulting in a flexible, lightweight, and durable tape. It is manufactured using precision lamination technology to ensure uniform construction, consistent quality, and reliable adhesion. The tape has been tested for Surface Burning Characteristics of Building Materials in accordance with ASTM E84-26a, achieving a Flame Spread Index (FSI) of 0 and a Smoke Developed Index (SDI) of 5. It is available in various thicknesses, widths, and roll lengths to meet different application and manufacturing requirements.



KEY PERFORMANCE PROPERTIES

- High adhesion to a wide range of substrates.
- Excellent dimensional stability due to PET film reinforcement.
- Superior tensile strength and tear resistance.
- Good flexibility and conformability to irregular surfaces.
- High resistance to moisture and water vapor.
- Excellent heat and aging resistance.
- Good resistance to UV exposure and weathering.
- Effective barrier against air, dust, and contaminants.
- High reflective aluminum surface for enhanced thermal efficiency.
- Excellent puncture and abrasion resistance.
- Smooth, uniform backing for easy handling and application.
- Long-lasting bond with reliable performance under demanding conditions.

AREAS OF APPLICATION

- Sealing and joining aluminum-faced insulation materials.
- HVAC duct sealing and insulation system assembly.
- Joint sealing for foil-faced thermal insulation panels.
- Vapor barrier sealing in insulation systems.
- Pipe insulation wrapping and joint sealing.
- Refrigeration and air-conditioning insulation applications.
- Cable wrapping and harness protection.
- General-purpose sealing and splicing applications.
- Masking and surface protection during manufacturing processes.
- Laminating and bonding of insulation materials.
- Packaging and sealing requiring a metallic barrier tape.
- Industrial maintenance, repair, and fabrication applications.

METHOD OF APPLICATION

Surface Preparation

- Ensure the application surface is clean, dry, and free from dust, dirt, oil, grease, moisture, and other contaminants.
- Remove any loose particles, damaged insulation, or unstable materials before tape application.
- The surface should be smooth, firm, and properly prepared to achieve optimum adhesive contact.
- For best bonding results, clean the surface with a dry, lint-free cloth prior to application.

Tape Application

- Measure and cut the required length of ASMACO ALU PET TAPE using an appropriate cutting tool.
- Position the tape accurately over the required joint, seam, connection, or surface area.
- Apply the tape gradually while pressing firmly to prevent wrinkles, air entrapment, or incomplete bonding.
- Apply consistent pressure over the entire tape surface to ensure proper adhesive contact.
- Use a hand roller or suitable application tool where required to improve adhesion and achieve a uniform bond.
- Ensure adequate overlap at joints and seams to maintain effective sealing performance.

Cutting and Handling

- The tape can be easily cut to the required size using scissors, a utility knife, or other suitable cutting tools.
- Avoid excessive stretching, pulling, or rough handling during installation to maintain the integrity of the aluminum and PET laminate structure.

Adhesion Time

- The pressure-sensitive adhesive provides immediate tack upon application.
- Allow sufficient time for the adhesive to develop its final bond strength under recommended environmental conditions.
- Avoid repositioning, disturbing, or applying stress to the tape immediately after installation.
- Final adhesion performance depends on surface preparation, applied pressure, substrate condition, and environmental factors.

Storage and Handling

- Store the tape in a cool, dry, and well-ventilated area away from direct sunlight, excessive heat, and moisture.
- Maintain storage temperatures between **+5°C to +30°C** to preserve optimum adhesive performance.



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- Maintain storage temperatures between **+5°C to +30°C** to preserve optimum adhesive performance.
- Keep rolls in their original packaging until use to prevent contamination and physical damage.
- Avoid excessive compression, bending, or deformation of rolls during storage and handling.
- Handle rolls carefully to prevent damage to the aluminum foil and PET film laminate structure.

STORAGE & SHELF LIFE

ASMACO ALU PET TAPE has a shelf life of 12 months from production date when stored in its original packaging at temperatures between 5°C and 30°C.

HEALTH & SAFETY

- Avoid Skin Contact with Adhesive.
- Use in Well-Ventilated Areas.
- Keep Away from Heat and Flames.
- Do Not Ingest.
- Adhesive Removal.
- Keep Out of Reach of Children and Pets.

AVAILABLE SIZE & PACKAGING

Width (mm)	Standard Roll Length Y / M	PACKAGING
48	20 Yard, (18.25 meter)	24 Roll / Carton
48	25 Yard, (22.85 meter)	24 Roll / Carton
48	30 Yard, (27.40 meter)	24 Roll / Carton
72	20 Yard, (18.25 meter)	16 Roll / Carton
72	25 Yard, (22.85 meter)	16 Roll / Carton
72	30 Yard, (27.40 meter)	16 Roll / Carton
96	20 Yard, (18.25 meter)	12 Roll / Carton
96	25 Yard, (22.85 meter)	12 Roll / Carton
96	30 Yard, (27.40 meter)	12 Roll / Carton

Special Sizes: Width × Length – available subject to Minimum Order Quantity (MOQ)

CLEAN UP

Any adhesive residue from **ASMACO ALU PET TAPE** adhesive can be removed by **ASMACO STICKER & LABEL REMOVER** spray.

TECHNICAL PROPERTIES

DESCRIPTION	UNIT	STANDARDS
Color	Silver	—
Backing Thickness	25 µm	PSTC-133 / ASTM D 3652
Total Thickness	≥ 65 µm	PSTC- 133 ASTM D 3652
Peel Adhesion to Steel	≥ 15 N / 25mm	PSTC-101 ASTM D 3330
Elongation at Break	≥ 20 %	PSTC- 131 ASTM D 3759
Tensile Strength	≥ 70 N / 25mm	PSTC- 131 ASTM D 3759
Application Temperature	+10°C — +40°C	—
Service Temperature	-30°C — +100°C	—
Flame Spread Index (FSI) Smoke Developed Index (SDI)	FSI- 0 SDI- 5	ASTM E84-26a

CERTIFICATIONS





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Regional Compliance Notice

Please note that regulatory requirements may vary from one region to another. As a result, product information and recommended applications may differ between countries. For accurate and up-to-date details on product specifications and approved uses, and for any technical guidance, please contact Technical Department of ANCHOR ALLIED FACTORY L.L.C. SHARJAH, UAE.

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ANCHOR ALLIED FACTORY L.L.C.

Industrial Area 15 | P.O.BOX, 21152 Sharjah, UAE



+971 6 5342091



+971 6 5342107



www.anchorallied.com



info@anchorallied.com