

Adding more to adhesive tape

INDUSTRIAL RANGE

Issue 1

Advance Tapes
A UK leading manufacturer
and supplier of high quality
adhesive tapes



PROFESSIONAL QUALITY INDUSTRIAL TAPES

Choose from a comprehensive range of products for indoor and outdoor applications that have been developed for professionals in the industrial market. To make it easy to select the right tape for the job, we have consolidated all key technical product information and features into one easy-to-use brochure.

The products included in this brochure are a selection from our extensive range. There are other Industrial Consumables products available, which can be found on our website www.advancetapes.com

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AT132 - All Purpose High Tack Duct Tape

Features

- Very high tack
- Easy tear
- Tight unwind
- Abrasion resistant
- Water resistant
- Conformable

Applications

- Maintaining, repairing, joining, sealing, masking or protecting many surfaces and materials.
- Bundling materials, duct sealing, strapping applications and holding covers on robotic spray arms in automotive manufacturers.

Adhesive type

Solvent free rubber-resin

Technical

Thickness: 0.17 mm
 Breaking Load: 35 N/cm
 Elongation: 18%
 Adhesion to Steel: 4.0 N/cm
 Adhesion to Self: 3.0 N/cm
 Service Temperature: -50°C to +65°C
 RoHS Compliant: Yes

Standard colours



Individually wrapped in sizes 50mm x 50m and 75mm x 50m



AT159 - High Quality Matt Waterproof Cloth Tape

Features

- Strong
- Easy unwind and easy tear
- Conformable
- Water resistant
- Abrasion resistant
- Wide colour range

Applications

- Securing and bundling of cables.
- Sealing fibre drums.
- Automotive applications.
- Book, spine and cheque book binding.

Adhesive type

Solvent free rubber-resin

Technical

Thickness: 0.28 mm
 Breaking Load: 46 N/cm
 Elongation: 16%
 Adhesion to Steel: 4.0 N/cm
 Adhesion to Self: 2.4 N/cm
 Service Temperature: -50°C to +80°C
 RoHS Compliant: Yes

Standard colours



AT160 - Premium Quality Matt Waterproof Cloth Tape

Features

- Very strong
- Conformable
- Water resistant
- Abrasion and puncture resistant
- Very good long term resistance to outdoor exposure
- Wide colour range

Applications

- Splicing and joining during manufacturing processes.
- Protection of turbine blades during refurbishment.
- Joining heavy duty PE sheeting and wall boards.
- Stone chip protection.
- Book, spine and cheque book binding.

Adhesive type

Solvent free rubber-resin

Technical

Thickness: 0.33 mm
 Breaking Load: 85 N/cm
 Elongation: 8%
 Adhesion to Steel: 3.5 N/cm
 Adhesion to Self: 2.2 N/cm
 Service Temperature: -50°C to +80°C
 RoHS Compliant: Yes

Specification

Conforms to DEF. STAN. reference 81-25/4

Standard colours



AT163 - Thermosetting Duct Tape

Features

- Strong
- High tack
- Thermosetting adhesive
- Clean peel from most surfaces* up to +110°C
- Conformable
- Water and salt water resistant
- Abrasion resistant

Applications

- Joint sealing on metal or plastic ducting.
- Shot blast protection.
- Shot peening process protection.
- Offshore oil rig drill protection.
- High temperature duct sealing.

Adhesive type

Solvent free rubber-resin

Technical

Thickness: 0.30 mm
Breaking Load: 70 N/cm
Elongation: 30%
Adhesion to Steel: 7.4 N/cm
Adhesion to Self: 3.2 N/cm
Service Temperature: -50°C to +110°C
RoHS Compliant: Yes

Standard colour



AT170 - PCL Tape

Features

- Strong
- High tack
- Easy unwind and easy tear
- Water resistant
- Abrasion resistant

Applications

- Joining and sealing polyethylene sheeting.
- Sealing bags.

Adhesive type

Solvent free rubber-resin

Technical

Thickness: 0.20 mm
Breaking Load: 35 N/cm
Elongation: 20%
Adhesion to Steel: 3.7 N/cm
Adhesion to Self: 2.3 N/cm
Service Temperature: -50°C to +65°C
RoHS Compliant: Yes

Standard colours



AT172 - High Quality PCL Cloth Tape

Features

- Very high tack
- Easy tear
- Conformable
- Abrasion and puncture resistant
- Water resistant

Applications

- Sheeting up, sealing overalls, sealing waste bags and general use.
- Maintaining, repairing, joining, sealing, masking or protecting many surfaces and materials.
- AT172 can be used across various applications where a high tack and abrasion resistant cloth tape is required.

Adhesive type

Solvent free rubber-resin

Technical







Thickness: 0.30 mm
Breaking Load: 36 N/cm
Elongation: 30%
Adhesion to Steel: 4.0 N/cm
Adhesion to Self: 3.0 N/cm
Service Temperature: -50°C to +65°C
RoHS Compliant: Yes

Standard colours



AT175 - High Quality Gloss Waterproof Cloth Tape

Features

-  Very high tack
-  Easy unwind and easy tear
-  Clean peel from most surfaces*
-  Conformable
-  Water resistant
-  Abrasion resistant

Applications

- Strapping lagging foam for sound proofing and blanking off unused apertures in automotive manufacturing.
- Sealing metal and plastic ducting.
- Tabbing, holding and protection on automotive production lines.
- "Tank Tape" for protection and repair of motor sports vehicles.

Adhesive type

Solvent free rubber-resin

Technical







Thickness: 0.23 mm
 Breaking Load: 32 N/cm
 Elongation: 24%
 Adhesion to Self: 5.5 N/cm
 Adhesion to Steel: 3.5 N/cm
 Service Temperature: -50°C to +80°C
 RoHS Compliant: Yes

Standard colours



AT180 - Premium Quality Gloss Waterproof Cloth Tape

Features

-  Strong
-  High tack
-  Very long term outdoor exposure
-  Clean peel from most surfaces*
-  Water resistant
-  Abrasion resistant

Applications

- Masking off during shot blasting.
- High temperature duct sealing.
- Windmill blade protection.
- Protection of titanium body part replacements.

Adhesive type

Solvent free rubber-resin

Technical

Thickness: 0.28 mm
 Breaking Load: 65 N/cm
 Elongation: 30%
 Adhesion to Steel: 4.5 N/cm
 Adhesion to Self: 3.0 N/cm
 Service Temperature: -50°C to +80°C
 RoHS Compliant: Yes

Specification







Conforms to DEF. STAN. reference 81-145 2a

Standard colours



AT6190 - Extreme Tack Duct Tape

Features

-  Extreme tack
-  Consistent unwind and easy tear
-  Clean peel from most surfaces* up to 4 days
-  Conformable
-  Water resistant
-  Abrasion resistant

Applications

- Maintaining, repairing, joining, sealing, masking or protecting many surfaces and materials.

Adhesive type

Solvent free rubber-resin

Technical

Thickness: 0.22 mm
 Breaking load: 38 N/cm
 Adhesion to Steel: 7.0 N/cm
 Adhesion to Self: 3.5 N/cm
 Service Temperature: -50°C to +75°C
 RoHS Compliant: Yes

Standard colour



Individually wrapped in size 50mm x 33m



AT121 / AT122 - Rayon Cloth Tapes

Features

- Biodegradable
- Strong
- Abrasion resistant
- Conformable
- Writable surface

Applications

- Covering fabric staple joints in the furniture industry.

Adhesive type

Solvent free rubber-resin

Technical

Thickness: 0.25 mm
Breaking Load: 75 N/cm
Elongation: 10%
Adhesion to Steel: 3.5 N/cm
Service Temperature: -10°C to +60°C
RoHS Compliant: Yes

Specification

AT121 conforms to DEF. STAN. reference 81-145 / 2

Standard colour



AT123 - High Tack Black Rayon Cloth Tape

Features

- Biodegradable
- High tack
- Very strong
- Conformable
- Abrasion resistant
- Writable surface

Applications

- Covering fabric staple joints in the furniture industry.

Adhesive type

Solvent free rubber-resin

Technical

Thickness: 0.25 mm
Breaking Load: 75 N/cm
Elongation: 10%
Adhesion to Steel: 3.5 N/cm
Adhesion to Self: 3.0 N/cm
Service Temperature: -10°C to +60°C
RoHS Compliant: Yes

Standard colour



AT142 - Cotton Cloth Protection Tape

Features

- Biodegradable
- Strong
- Neutral pH values
- Conformable
- Abrasion resistant
- Writable surface

Applications

- Masking off aircraft engine parts during manufacture and servicing.

Adhesive type

Solvent free rubber-resin

Technical

Thickness: 0.22 mm
Breaking Load: 60 N/cm
Elongation: 5%
Adhesion to Steel: 2.0 N/cm
Adhesion to Self: 2.0 N/cm
Service Temperature: -10°C to +60°C
RoHS Compliant: Yes

Specification

Conforms to DEF. STAN. reference 81-145 / 2

Standard colour



AT712 - Nuclear Tape

Features

- Low halogen content
- Clean peel from most surfaces*
- Water resistant
- Abrasion resistant
- Individually labelled rolls indicating PMUC approval
- Minimal reaction to specialised steel surfaces

Applications

- Joining sheeting, sealing bags and sheeting.
- Protection of stainless steel pipework.
- Supporting temporary curtains.
- Sealing protective overalls.

Adhesive type

Solvent free rubber-resin

Technical

Thickness: 0.27 mm
 Breaking Load: 41 N/cm
 Elongation: 18%
 Adhesion to Steel: 6.0 N/cm
 Adhesion to Self: 3.5 N/cm
 Service Temperature: -35°C to +70°C
 RoHS Compliant: Yes

Specification

AT712 in white conforms to NNC (UK) and EDF (FRANCE)
 Specifications total Halides 1000PPM Max Total and Sulphur 1000PPM Max

Standard colours



AT2002 - High Specification Flame Retardant Cloth Tape

Features

- Flame retardant - conforms to FAR 25.853
- Specification printed onto tape for easy identification
- Clean peel from most surfaces* up to 4 days at +50°C
- Excellent adhesion level
- Water and abrasion resistant

Applications

- Protection and joining during building and/or maintenance of aircraft, ships, submarines and trains.
- Sealings gaps between flame retardant panels.
- Joining hardboard partitions in cargo holds.
- Jointing of FR material on offshore oil rigs.

Adhesive type

Solvent free rubber-resin

Technical

Thickness: 0.23 mm
 Breaking Load: 38 N/cm
 Elongation: 45%
 Adhesion to Steel: 6.0 N/cm
 Adhesion to Self: 4.5 N/cm
 Service Temperature: -10°C to +60°C
 RoHS Compliant: Yes

Specification

Meets Federal Aviation specification FAR 25.853 covering flame retardancy.

Standard colour



AT4001 / AT4002 / AT4003 - Glass Cloth Tapes

Features

- High mechanical strength
- High temperature resistance
- Thermosetting adhesive
- Available in different temperature resistance: AT4001 Class B (130°C), AT4002 Class F (155°C) and AT4003 Class H (180°C)

Applications

- Electrical insulation of coils.
- Insulation of square conductors in traction motors and generators.
- Tensional strapping of coils and armature windings.
- Termination building to protect the external layer of winding.

Adhesive type

Thermosetting solvent based rubber-resin

Technical

Thickness: 0.18 mm
 Breaking Load: 280 N/cm
 Elongation: 5%
 Adhesion to Steel: 3.0 N/cm
 Breakdown Voltage: 2.5 kV
 RoHS Compliant: Yes

Specification

Recognised by UL. BS EN 60454-3-8 Type 1

Standard colour



* We would always recommend that users should satisfy themselves that the product is suitable for a particular application prior to use.

AT10 - PVC Heavy Duty Pipewrap Tape

Features

- 🔥 Flame retardant and self-extinguishing
- ∞ Conformable
- 🌧️ Water and UV resistant
- 🛡️ Abrasion resistant

Applications

- Corrosion and abrasion protection for pipework above or under ground.

Adhesive type

Cross-linked solvent based rubber-resin

Technical

Thickness: 0.25 mm
Breaking Load: 44 N/cm
Elongation: 220%
Adhesion to Steel: 3.3 N/cm
Adhesion to Self: 3.0 N/cm
Service Temperature: -5°C to +80°C
Breakdown Voltage: 10 kV
RoHS Compliant: Yes

Specification

Conforms to BS EN 60454-3-1 Type 2

Standard colour



AT27 - Translucent Repair Tape

Features

- ✓ Translucent
- 🔥 Flame retardant and self-extinguishing
- ∞ Conformable
- 🌡️ Resistant to high temperatures
- 🌧️ Water and UV resistant
- 🛡️ Abrasion resistant

Applications

- Temporary holding of rivets during aircraft maintenance and repair.
- Protection of painted surfaces.

Adhesive type

Solvent based rubber-resin

Technical

Thickness: 0.15mm
Breaking Load: 26 N/cm
Elongation: 130%
Adhesion to Steel: 3.5 N/cm
Adhesion to Self: 2.8 N/cm
Service Temperature: 0°C to +70°C
RoHS Compliant: Yes

Specification

Conforms to DEF. STAN. reference 81-145 / 3

Standard colour



AT30 - Polythene Tape

Features

- ➡️ Easy unwind
- ∞ Conformable
- 🌡️ Extreme temperature resistance
- 🌧️ Water resistant
- 🛡️ Abrasion resistant

Applications

- Strapping of aluminium tubing.
- Joining and sealing polyethylene sheeting.
- Manual splicing of films within the plastics industry including core starting and end tabbing.

Adhesive type

Solvent based rubber-resin

Technical

Thickness: 0.15 mm
Breaking Load: 16 N/cm
Elongation: 300%
Adhesion to Steel: 3.5 N/cm
Adhesion to Self: 2.2 N/cm
Service Temperature: -40°C to +90°C
RoHS Compliant: Yes

Specification







Conforms to DEF. STAN. reference 81-145 / 1

Standard colours



AT44 - Low Tack PVC Protection Tape

Features

-  Low tack
-  Clean peel from most surfaces*
-  Flame retardant
-  Conformable
-  Water and UV resistant
-  Abrasion resistant

Applications

- Outdoor protection and masking, especially where risk of fire is an issue.
- Aluminium extrusions protection.

Adhesive type

Solvent based rubber-resin

Technical







Thickness: 0.13 mm
 Breaking Load: 23 N/cm
 Elongation: 150%
 Adhesion to Steel: 0.3 N/cm
 Service Temperature: 0°C to +60°C
 RoHS Compliant: Yes

Standard colour



AT45 - Translucent Blue PVC Low Tack Protection Tape

Features

-  Low tack
-  Clean peel from most surfaces*
-  Easy unwind
-  Conformable
-  Water resistant
-  Abrasion resistant

Applications

- Protection of finished goods during storage and delivery.
- Edge protection of windscreen in packing crates.
- Protection of number plates, lights and other components during manufacturing and delivery.
- Protection of TV and monitor screens during storage and delivery.

Adhesive type

Solvent based rubber-resin

Technical







Thickness: 0.13 mm
 Breaking Load: 28 N/cm
 Elongation: 130%
 Adhesion to Steel: 0.5 N/cm
 Service Temperature: 0°C to +60°C
 RoHS Compliant: Yes

Standard colour



AT66 - PVC Protection Tape

Features

-  Medium tack
-  Clean peel from most surfaces* up to 4 weeks
-  Water and UV resistant
-  Abrasion resistant
-  Resistant to low temperatures
-  Also available: AT68 Ribbed PVC Protection Tape

Applications

- Masking off and protection.
- Protection of surfaces during manufacturing process in the automotive industry.

Adhesive type

Cross-linked solvent based rubber-resin

Technical

Thickness: 0.13 mm
 Breaking Load: 26 N/cm
 Elongation: 140%
 Adhesion to Steel: 1.7 N/cm
 Service Temperature: -5°C to +60°C
 RoHS Compliant: Yes

Standard colours



* We would always recommend that users should satisfy themselves that the product is suitable for a particular application prior to use.

AT6102 - Polythene Protection Tape

Features

- ➡ Easy to unwind and tear
- ✓ Clean peel from most surfaces*
- ☔ Water and UV resistant
- ❄ Frost resistant
- 🧊 Resistant to low temperatures
- ♻ Environmentally responsible choice

Applications

- Protection, masking and joining of sheeting to delicate surfaces.

Adhesive type

Dispersion acrylic

Technical

Thickness: 0.11 mm
Breaking Load: 15 N/cm
Elongation: 200%
Adhesion to Steel: 1.3 N/cm
Service Temperature: -40°C to +60°C
RoHS Compliant: Yes

Standard colour



AT6103 - Clear Polythene Tape

Features

- ✓ Excellent clarity once applied
- ✓ Clean peel from most surfaces*
- ✓ Resists most common solvents
- ☔ Water and UV resistant
- 🛡 Abrasion resistant
- ♻ Environmentally responsible choice

Applications

- Natural stone surface protection.
- Powder coated surface protection.
- Aluminium surface protection.
- Anodised aluminium surface protection.
- Bundling of metal pieces.

Adhesive type

Dispersion acrylic

Technical

Thickness: 0.11 mm
Breaking Load: 25 N/cm
Elongation: 300 %
Adhesion to Steel: 1.3 N/cm
Service Temperature: -40°C to +60°C
RoHS Compliant: Yes

Standard colour



AT6160 - High Tack PE Performance Tape

Features

- ➡ High tack
- ✓ High adhesion to low surface energy substrates
- ✂ Flexible at low temperatures
- 🛡 Abrasion resistant
- ☔ Water and weathering resistant

Applications

- Joining and sealing PE shrink film used for wrapping and protection of constructions works, boats, industrial machinery and military products.

Adhesive type

Solvent based rubber-resin

Technical

Thickness: 0.20 mm
Breaking Load: 27 N/cm
Elongation: 400 %
Adhesion to Steel: 3.5 N/cm
Adhesion to Self: 3.0 N/cm
Service Temperature: -5°C to +50°C
RoHS Compliant: Yes

Standard colour



AT7 - PVC Electrical Insulation Tape

Features

- Flame retardant and self-extinguishing
- Easy unwind and tear
- UV resistant
- Available in colour coding packs
- Wide range of colours

Applications

- Colour coding and insulation of electrical cabling.
- Colour coding components, intermediate stock and finished goods during manufacture.
- Masking and protection of aircraft portholes.
- Masking off aircraft landing gear when cadmium plating.

Adhesive type

Cross-linked solvent based rubber-resin

Technical

Thickness: 0.13 mm
 Breaking Load: 26 N/cm
 Elongation: 180%
 Adhesion to Steel: 2.4 N/cm
 Adhesion to Self: 2.1 N/cm
 Service Temperature: -5°C to +70°C
 Breakdown Voltage: 8.0 kV
 RoHS Compliant: Yes

Specification

Conforms to BS EN 60454/Type 2 and BS 4J10:1991

Standard colours



AT77 - All Weather PVC Electrical Insulation Tape

Features

- Flame retardant and self-extinguishing
- Resistant to low temperatures
- UV resistant
- Abrasion resistant
- Ageing resistant

Applications

- Insulation of electrical installations in cold storage transport.
- Insulating electrical installations in cold environments.

Adhesive type

Cross-linked solvent based rubber-resin

Technical

Thickness: 0.19 mm
 Breaking Load: 30 N/cm
 Elongation: 250%
 Adhesion to Steel: 2.6 N/cm
 Adhesion to Self: 2.5 N/cm
 Service Temperature: -18°C to +80°C
 Breakdown Voltage: 10 kV
 RoHS Compliant: Yes

Specification

Conforms to BS EN 60454/Type 6

Standard colour



AT87 - Polyisobutylene Self Amalgamating Tape

Features

- Easy unwind
- Conformable
- Resistant to high and low temperatures
- Water and UV resistant
- Ozone resistant
- Resistant to a wide range of chemicals including, alkalis, hydraulic fluids and vegetable oils

Applications

- Insulation and waterproofing of electrical connections.
- Temporary and emergency repair of plumbing joints.

Technical

Thickness: 0.5 mm
 Breaking Load: 20 N/cm
 Elongation: 600%
 Service Temperature: -30°C to +100°C
 Breakdown Voltage: 17 kV/mm
 RoHS Compliant: Yes







Standard colour



* We would always recommend that users should satisfy themselves that the product is suitable for a particular application prior to use.

AT8 / AT8H - Lane Marking Tape & Hazard Warning Tape

Features

-  Very high level of adhesion
-  Low stretch PVC
-  Good abrasion resistance
-  Can be walked on immediately after application
-  Water and UV resistant
-  For indoor and outdoor use

Applications

- Demarcation of gangways within factories and warehouses.
- BLACK/YELLOW: Radioactive substances, Width and height restrictions, Moving equipment and obstructions.
- RED/WHITE: Firefighting equipment, No smoking areas, Flammable substances.
- GREEN/ WHITE: Safety equipment, First aid points, Emergency escape routes, Safe areas.

Adhesive type

Cross-linked solvent based rubber-resin

Technical






Thickness: 0.14 mm
 Breaking Load: 26 N/cm
 Elongation: 150%
 Adhesion to Steel: 3.5 N/cm
 Adhesion to Self: 2.5 N/cm
 Service Temperature: 0°C to +60°C
 RoHS Compliant: Yes

Standard colours



AT2000 - Anti Slip Tape

Features

-  Durable PVC
-  Can be walked on immediately after application
-  Water, UV and oil resistant
-  For indoor and outdoor use
-  Acrylic adhesive - bond improves with age

Applications

- Anti slip tread on stairs and ladder treads.
- Anti slip tread on machinery and vehicle footplates.
- For use on wet or slippery areas.
- Provides extra grip on ramps and walkways.

Adhesive type

Solvent based acrylic

Technical




Thickness: 1.0 mm
 Breaking Load: 40 N/cm
 Elongation: 100%
 Adhesion to Steel: 4.0 N/cm
 Service Temperature: -5°C to +50°C
 RoHS Compliant: Yes

Standard colours



AT302 - Double Sided Cotton Cloth Tape

Features

-  High tack
-  Conformable
-  Easy tear

Applications

- Ideal for securing metal to wood or metal to metal.

Adhesive type

Hot-melt (synthetic rubber)

Technical

Thickness: 0.25 mm
 Breaking Load: 22 N/cm
 Elongation: 4%
 Adhesion to Steel Faced Side: 20 N/cm
 Adhesion to Steel Unfaced side: 20 N/cm
 Service Temperature: -10°C to +50°C
 RoHS Compliant: Yes

Standard colour



AT310 - Double Sided Polypropylene Tape

Features

- High tack
- Excellent conformability
- Resistant to low temperatures
- Good dimensional stability

Applications

- Joining sheeting.

Adhesive type

Hot-melt (synthetic rubber)

Technical

Thickness: 0.10 mm
 Breaking load: 40 N/cm
 Elongation: 165%
 Adhesion to Steel Faced Side: 5.0 N/cm
 Adhesion to Steel Unfaced side: 5.0 N/cm
 Service Temperature: -10°C to +50°C
 RoHS Compliant: Yes

Standard colour



AT319 - Double Sided PVC Tape

Features

- Very high tack
- Easy tear
- Conformable

Applications

- Laminating to rubber sheets and gaskets to make self-adhesive products.
- Used in vapour control application, to temporarily hold down the membrane before main fix.

Adhesive type

Synthetic rubber-resin

Technical

Thickness: 0.18 mm
 Breaking Load: 18 N/cm
 Elongation: 125%
 Adhesion to Steel Faced Side: 12.0 N/cm
 Adhesion to Steel Unfaced side: 12.0 N/cm
 Service Temperature: 0°C to +70°C
 RoHS Compliant: Yes

Standard colour



AT395 - Reverse Wound Double Sided Transfer Tape

Features

- High tack
- UV resistant
- Excellent temperature range

Applications

- Self adhesive envelope manufacturing.
- Blister pack manufacturing.

Adhesive type

Solvent acrylic

Technical

Thickness: 0.04 mm
 Adhesion to Steel Faced Side: 3.5 N/cm
 Adhesion to Steel Unfaced side: 3.5 N/cm
 Service Temperature: -10°C to +100°C
 RoHS Compliant: Yes

Standard colour



* We would always recommend that users should satisfy themselves that the product is suitable for a particular application prior to use.

AT502 / AT500 / AT506 - Aluminium Foil Tapes

Features

- 🔥 Flame retardant and self-extinguishing
- 🔥 Resistant to high temperatures
- ➡️ Easy unwind and tear
- 💧 Excellent water vapour resistance
- ✅ Available in different foil thickness: AT502 (30 micron), AT500 (40 micron) and AT506 (50 micron)

Applications

- Sealing metal or plastic ducting.
- Insulation of heater casings and high pressure steam pipe insulation.
- Sealing cold store insulation.
- Heat reflection.

Adhesive type

Dispersion acrylic

Technical

Service temp: -20°C to +110°C

Specification

Conforms to:
- BS476 Part 6 & Part 7 Category 1
- Fire Class M1
- Class O

Standard colour



AT501 - Reinforced Aluminium Foil Tape

Features

- ✅ Scrim reinforced for greater strength
- 🔥 Flame retardant and self-extinguishing
- 🔥 Resistant to high temperatures
- 💧 Water resistant

Applications

- Joining foil faced insulation panels and pipe sections.
- Joining fibre insulation between the internal skin and fuselage of aircraft.
- Sealing joints in metal ducting.

Adhesive type

Dispersion acrylic

Technical

Thickness: 0.12 mm
Breaking Load: 60 N/cm
Elongation: 5%
Adhesion to Steel: 4.6 N/cm
Service Temperature: -20°C to +110°C

Specification

Conforms to BS476 Part 7 Category 1

Standard colour



AT525 - 35 Micron Copper Foil Shielding Tape

Features

- 🔥 Non-conductive acrylic adhesive
- 🔥 Resistant to high and low temperatures
- ✅ Can be easily soldered
- ➡️ Easy unwind

Applications

- Used for EMI / RFI and static shielding.

Adhesive type

Non conducting thermosetting solvent based acrylic

Technical

Thickness: 0.035 mm
Breaking Load: 40 N/cm
Adhesion to Steel: 4.5 N/cm
Service Temperature: -20°C to +155°C
RoHS Compliant: Yes





Specification

Relevant BS EN 60454 - Part 2 test method
Relevant ASTM D - 1000 test method
In-house tests conforming to the flame retardant requirements of UL 510



AT526 - 35 Micron Copper Foil Shielding Tape

Features

-  Conductive acrylic adhesive
-  Resistant to high and low temperatures
-  Can be easily soldered
-  Easy unwind

Applications

- Used for EMI / RFI and static shielding.

Adhesive type

Conductive thermosetting solvent based acrylic

Technical

Thickness: 0.035 mm
 Breaking Load: 40 N/cm
 Adhesion to Steel: 4.5 N/cm
 Service Temperature: -20°C to +155°C
 RoHS Compliant: Yes






Specification

Military specification MIL-T-47012
 Relevant BS EN 60454 - Part 2 test method
 Relevant ASTM D - 1000 test method
 In-house tests conforming to the flame retardant requirements of UL 510



AT6300 - 60°C Paper Masking Tape

Features

-  Easy to unwind and easy tear
-  Repositionable
-  Low tack
-  Clean peel from most surfaces* up to 3 hours
-  Conformable

Applications

- Temporary bundling.

Adhesive type

Solvent based rubber-resin

Technical







Thickness: 0.11 mm
 Breaking Load: 30 N/cm
 Elongation: 9%
 Adhesion to Steel: 3.8 N/cm
 Service Temperature: 0°C to +60°C
 RoHS Compliant: Yes

Standard colour



AT6301 - 80°C Paper Masking Tape

Features

-  Easy to unwind and easy tear
-  Repositionable
-  Low tack
-  Clean peel from most surfaces* up to 12 hours
-  Conformable
-  Resistant to high temperatures

Applications

- Temporary bundling.

Adhesive type

Solvent based rubber-resin

Technical

Thickness: 0.12 mm
 Breaking Load: 30 N/cm
 Elongation: 9%
 Adhesion to Steel: 2.6 N/cm
 Service Temperature: 0°C to +80°C
 RoHS Compliant: Yes

Standard colour



* We would always recommend that users should satisfy themselves that the product is suitable for a particular application prior to use.

FOR A PERFECT RESULT CHOOSE THE RIGHT PROTECTION TAPE

Tapes often look very similar to each other but they all have unique properties that make them ideally suited to many specific types of applications. One of the most important elements in choosing the right tape for a particular project is the performance of the adhesive on the surface to which the tape will be applied.

To help the end-user make an informed decision about what tape to use, please consult the table below.

	AT10 - PVC Heavy Duty Pipewrap Tape	AT27 - Translucent Repair Tape	AT30 - Polythene Tape	AT44 - Low Tack PVC Protection Tape	AT45 - Translucent Blue PVC Low Tack Protection Tape
Surfaces	Plastics	X	X	X	X
	Polythene			X	X
	PVCp - plasticised	X	X		
	PVCu - unplasticised		X	X	X
	Cement				
	Concrete				
	Plaster				
	Ceramic				
	Metals (aluminium, zinc)	X		X	X
	Glass				X
	Wood and derivated				X
	Stone				
Brick					
Performance	Tack	Medium	High	Medium	Low
	Clean peel	No	No	No	Yes*
	Conformable	Yes	Yes	Yes	Yes
	Inside	Yes	Yes	Yes	Yes
	Outside	Yes	Yes	Yes	Yes
	Water resistant	Yes	Yes	Yes	Yes
	UV resistant	High	Low	Low	High
	Frost resistant	Yes	Yes	Yes	Yes
	Service temperature	+5°C to +80°C	+0°C to +70°C	-40°C to +90°C	0°C to +60°C
	Flame retardant	Yes	Yes	No	Yes
	Writable surface	No	No	No	No
	Specification	BS EN 60454-3-1/ Type 2	DEF STAN 81-145/3	DEF STAN 81-145/1	

At Advance we understand the markets in which we operate, and most importantly we fully appreciate how tapes are used and the characteristics required. Should you have any questions or require additional information regarding our range of industrial tapes, please visit our website www.advancetapes.com or contact our team of experts by phone at 00 44 (0)116 251 0191. If you are not sure how to choose the right tape to meet your customer's exact needs, we are here to help.

	AT66 - PVC Protection Tape	AT6102 - Polythene Protection Tape	AT6103 - Clear Polythene Tape	AT6160 - High Tack PE Performance Tape
Surfaces	Plastics	X	X	X
	Polythene	X	X	X
	PVCp - plasticised	X		
	PVCu - unplasticised	X	X	X
	Cement			
	Concrete			
	Plaster	X	X	X
	Ceramic	X	X	X
	Metals (aluminium, zinc)	X	X	X
	Glass	X	X	X
	Wood and derivated		X	X
	Stone			
Brick	X			
Performance	Tack	Medium	Medium	Medium
	Clean peel	Yes*	Yes*	Yes*
	Conformable	Yes	Yes	Yes
	Inside	Yes	Yes	Yes
	Outside	Yes	Yes	Yes
	Water resistant	Yes	Yes	Yes
	UV resistant	High	High	High
	Frost resistant	Yes	Yes	Yes
	Service temperature	-5°C to +60°C	-40°C to +60°C	-40°C to +60°C
	Flame retardant	No	No	No
	Writable surface	Yes	Yes	Yes
Specification				

*We would always recommend that users should satisfy themselves that the product is suitable for a particular application prior to use.

Abrasion resistance

The ability of a tape to withstand rubbing and friction and still function satisfactorily.

Adhesion

The state in which two surfaces are held together by interfacial forces; e.g. bond formed by contact between an adhesive and a surface.

Adhesion to self

The force required to remove a tape from its own backing to which it has been reapplied with a defined pressure after being removed from the roll.

Adhesion to steel

Force required to remove tape from a steel plate.

Application temperature

The temperature range at which the tape may easily be applied off the roll.

Breakdown voltage

The voltage at which breakdown of the tape occurs under the prescribed conditions of the test, divided by the distance apart of the two electrodes between which the voltage is applied.

Breaking load

The force needed to break the tape under stress.

Clean peel

A tape, which can be removed after application, without leaving residue behind.

Conformability

The ability of tape to fit snugly or make essentially complete contact with the surface of an irregularly shaped object without creasing or folding.

Differential adhesive

Where the adhesion of faced and unfaced sides of double sided tapes differs.

Dimensional stability

Where the tape will suffer minimal distortion.

Ease of unwind

The force required to remove the tape from the roll under prescribed conditions.

Electrical strength

The voltage at which breakdown of the tape occurs under the prescribed conditions of test, divided by the distance apart of the two electrodes between which the voltage is applied.

Electrolytic corrosion

A reaction which can occur when dissimilar metals are in contact.

Elongation at break

The amount of a tape that has stretched length wise at the point of breaking. It is expressed as a percentage of the original unstretched length.

Flame resistance/retardant

The ability of a tape to withstand exposure to flame. Fireproof materials will not burn when exposed to a flame. Flame resistant (fire retardant, self-extinguishing) materials will burn when exposed to flame but not continue to burn after the flame is removed.

Flame retardant in situ

The ability of a tape to resist burning (once it has been applied to a substrate).

Flexible

The ability of a tape to be freely bent or flexed during application, particularly applicable to low temperature use.

Heat resistance

The ability of a tape to withstand a specified temperature under well defined conditions.

Low stretch

Mostly applicable to filmic tapes, the ability of a tape to resist stretching and hence shrink back once applied. A highly desirable attribute for lane or hazard marking tapes.

Low tack

Where the tape's instant stick is not high and is designed to be removed. Usually appears on tapes designed for masking applications. (This does not necessarily mean the tape has low adhesion as well as low tack).

Insulation resistance

The ability of a tape to prevent the flow of current across the surface of the backing.

Moisture vapour permeability

The rate at which a tape will allow water vapour to pass through a given area of tape.

Non-corrosive adhesive

An adhesive which does not chemically attack the surface it is in contact with.

Ozone resistance

Resistant to cracking due to exposure to ozone over time.

Plasticiser resistance

The ability of the tape to withstand plasticiser migration.

Pressure sensitive adhesive

A type of adhesive, which is permanently tacky at room temperature and when applied to a variety of surfaces, forms an immediate bond. The bond strength may be increased by pressure and/or time.

Pressure sensitive tape

A term used to describe a category of tape coated on one or both faces with a pressure sensitive adhesive.

Printable

The ability of a tape to accept and hold a printed legend and especially to resist off-setting of the print when unwound from a roll.

Release liner

A removable material, which protects the adhesive face or faces of the roll of tape.

Removability

Ability to remove the tape from the substrate without damaging or contaminating the substrate under specified conditions, usually after a long period of time.

Re-positionability

Ability to remove the tape from the substrate without damaging or contaminating the substrate under specified conditions, yet retaining bond strength when re-applied, usually after a short period of time.

Resistance to ageing

The ability of a tape to withstand normal exposures, after application, and to perform satisfactorily.

Resistance to oils, grease and solvents

The ability of a tape to resist exposure to such chemicals after application, and to perform satisfactorily.

Self amalgamating

The ability of a tape to form a homogeneous mass by the fusing of layers so that the individual layers cannot be separated, when applied under tension without the need for external heat or pressure.

Self bonding

Tape that will adhere to itself without fusing so that the individual layers can be separated cleanly if required.

Self-extinguishing

The ability of the tape to cease burning once the flame is removed.

Service temperature

The temperature range at which the tape will continue to give satisfactory results once applied.

Shear strength

The ability of the adhesive to resist force applied in the same plane as the tape.

Short term temperature resistance

Maximum short term is a matter of seconds or minutes rather than hours. Tapes with short term high temperature resistance are used in manufacturing processes. Machine speed, tensions and temperatures reached will need to be taken into account and the tape trialled prior to full implementation.

Substrate

The surface to which the tape is applied.

Tack

The property of an adhesive tape that causes an instant bond, with measurable force, by the touching of the adhesive and a substrate without externally applied pressure.

Tearability

How easy the tape is to tear by hand by a person of average strength without the need for any cutting tools. Where tearability is indicated as difficult, tools may be needed to cut the tape.

Thermosetting adhesive

An adhesive, which becomes firmer on heating and remains so on cooling. Thermosetting of adhesive improves solvent resistance and increases softening temperature.

Thickness

Measurement given in millimetres. (Excludes release paper where applicable).

UV Resistance

The ability of the tape to resist exposure to ultra-violet rays after application and to perform satisfactorily.

Waterproof/water resistant

The ability of the tape to withstand water without the tape bond altering.

Weather resistance

The ability of the tape to resist exposure to specified conditions after application and to perform satisfactorily; these conditions are usually cold, water and UV.

Writable surface

A surface, which can be written on with ball point or marker pen. Particularly useful if the tape is to be used in identification applications.

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