

Adding more to adhesive tape

ADVANCE EXPERT GUIDE

August 2017

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





PROFESSIONAL QUALITY ADHESIVE TAPES

This expert's guide has been specifically designed to help Reliable Source and their customers understand how to select the right tape for the job.

To be able to select the right tape for the job we have consolidated all key product information, features and benefits into one easy to use guide.

The products included in this brochure are a selection from our extensive range. There are other products available, see our website www.advancetapes.com

CLOTH TAPES

AT142 - Cotton Cloth Protection Tape 03

AT159 - High Quality Matt Waterproof Cloth Tape 03

AT160 - Premium Quality Matt Waterproof Cloth Tape 03

AT175 - High Quality Gloss Waterproof Cloth Tape 04

AT200 - Ultra Matt Cloth Advance Gaffa® Tape 04

AT293 - Premier Closure Plate Tape 04

POLYTHENE TAPES

AT30 - Polythene Tape 05

AT6102 - Polythene Protection Tape 05

AT6103 - Clear Polythene Tape 05

PVC TAPES

AT7 - PVC Electrical Insulation Tape 06

AT8 - Lane Marking Tape 06

AT27 - Translucent Repair Tape 06

AT44 - Low Tack PVC Protection Tape 07

AT6000 - PVC Building Tape 07

FOIL TAPE

AT502 - 30 Micron Aluminium Foil Tape 07

AT142 - Cotton Cloth Protection Tape

Reliable Source reference
RS142AT

Features

- Strong
- Neutral pH values
- Conformable
- Abrasion resistant
- Writable surface
- Fully biodegradable

Applications

- Protection of ironworks during road surfacing
- Sealing bandages and dressings on animals
- Strapping of sports equipment handles
- Wrapping around ropes in boxing ring

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

Specification
DEF STAN 81-145/2

Standard colour



AT159 - High Quality Matt Waterproof Cloth Tape

Reliable Source reference
RS159

Features

- Strong
- Aggressive adhesive
- Easy unwind and easy tear
- Water resistant
- Abrasion resistant
- Writable surface
- Wide colour range

Applications

- Book, spine and cheque book binding
- Holding windscreens in place whilst adhesive cures

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

Standard colours



AT160 - Premium Quality Matt Waterproof Cloth Tape

Reliable Source reference
RS160

Features

- Very strong
- Conformable
- Water, abrasion and puncture resistant
- Good long term outdoor exposure
- Writable surface
- Wide colour range

Applications

- Protection of turbine blades during refurbishment
- Splicing and joining during manufacturing processes
- Joining heavy duty polythene sheeting
- Colour coding, sealing ammunition cases and emergency repair tape for armed forces

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

Specification
DEF STAN 81-145/2a







Standard colours



AT175 - High Quality Gloss Waterproof Cloth Tape

Reliable Source reference
RS175

Features

-  Very high tack
-  Easy unwind and very easy tear
-  Water and abrasion resistant
-  Clean peel*
-  Writable surface
-  Wide colour range

Applications

- Sealing metal and plastic ducting
- Masking off on metal and concrete surfaces
- Tabbing, holding and protection on automotive production lines
- 'Tank Tape' - Leading edge protection on aerofoils on motor sports vehicles

Adhesive type
Solvent free rubber-resin

Technical

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







Standard colours



AT200 - Ultra Matt Cloth Advance Gaffa® Tape

Reliable Source reference
RS199

Features

-  Flame retardant in situ
-  Cable friendly clean peel adhesive*
-  Easy to unwind and tear
-  Water and abrasion resistant
-  Writable surface
-  Wide colour range

Applications

- Securing and bundling of cabling
- Colour coding on lighting and mixing desks
- Securing light fixtures and equipment

Adhesive type
Solvent free rubber-resin

Technical

Thickness: 0.26 mm
Breaking load: 40 N/cm
Elongation: 20%
Adhesion to Steel: 4.5 N/cm
Adhesion to Self: 2.6 N/cm
Service Temperature: -10°C to +80°C







Standard colours



AT293 - Premier Closure Plate Tape

Reliable Source reference
RS163

Features

-  Unique Surefire® thermosetting adhesive
-  Strong
-  Very high tack
-  High and low temperature resistant
-  Easy tear
-  Water resistant finish

Applications

- Sealing Gas fire closure plates above or under ground

Adhesive type

Solvent free rubber-resin

Technical

Thickness: 0.28 mm
Breaking load: 75 N/cm
Elongation: 30%
Adhesion to Steel: 4.5 N/cm
Adhesion to Self: 3.2 N/cm
Service Temperature: -50°C to +110°C

Specification

PRS10 Issue 2

Standard colour



AT30 - Polythene Tape

Reliable Source reference

IE223

Features

- Easy unwind
- Water resistant
- Good low temperature resistance

Applications

- Damp proof membrane joining
- Joining and sealing polythene sheeting
- Reinforcing pallet wrapping films

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

Specification

DEF STAN 81-145/1

Standard colour



AT6102 - Polythene Protection Tape

Reliable Source reference

RS285

Features

- Easy to unwind and tear
- Clean peel from most surfaces*
- UV and water resistant
- Frost resistant
- Good low temperature resistance
- Environmentally responsible choice

Applications

- Protection, masking and joining of sheeting to delicate surfaces during renovation
- Protection of finished goods in production or during transit
- Masking off during sign writing and painting of buses

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

Standard colour



Important Note

Tape performance is impaired if used on anodised surfaces which are not completely sealed. As a result, we recommend that you test the aluminium or stainless steel surface for suitability. We would advise you to check each new batch/delivery of metal for suitability.

AT6103 - Clear Polythene Tape

Reliable Source reference

RS6103

Features

- Conformable to awkward shapes
- Clean peel from most surfaces*
- Resists most common solvents
- UV and water resistant
- Abrasion resistant
- Environmentally responsible choice

Applications

- Protection of documents and maps
- Temporary holding of rivets during aircraft maintenance and repair
- Protection of delicate surfaces during construction and renovation

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

Standard colour








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

AT7 - PVC Electrical Insulation Tape

Reliable Source reference
RS707

Features

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

Applications

- Colour coding components, intermediate stock and finished goods during manufacture
- Masking off during chemical and electro-plating
- Masking and protection of aircraft portholes during manufacture
- Degaussing and coil wrapping
- Colour coding and insulation of electrical cabling

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: 8kV

Specification

Conforms to BS EN 60454/Type 2







Standard colours



AT8 - Lane Marking Tape

Reliable Source reference
RS760

Features

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

Applications

- Demarcation of gangways within factories and warehouses
- Directional marking out of floors in hospitals, schools and other public buildings
- Marking out sports halls and courts

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






Standard colours



AT27 - Translucent Repair Tape

Reliable Source reference
IE227

Features

-  Flame retardant and self-extinguishing
-  Conformable
-  UV & water resistant
-  High temperature resistant
-  Abrasion resistant

Applications

- Joining stage and dance floors and scenery
- Protection of documents and maps
- Temporary holding of rivets during aircraft maintenance and repair

Adhesive type

Solvent based rubber-resin

Technical

Thickness: 0.15 mm
 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

Specification

DEF STAN 81-145/3






Standard colour



AT44 - Low Tack PVC Protection Tape

Reliable Source reference
RS744

Features

-  Flame retardant
-  Low tack
-  Clean peel from most surfaces*
-  UV & water resistant
-  Abrasion resistant

Applications

- Outdoor protection and masking, especially where risk of fire is an issue
- Protection and masking off during construction or renovation of ships

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






Standard colour



AT6000 - PVC Building Tape

Reliable Source reference
RS6000

Features

-  Very easy unwind and easy tear
-  Clean peel from most surfaces*
-  UV & water resistant
-  For indoor and outdoor use
-  Can be unwound from the roll without stretching the tape

Applications

- Joining protection sheets
- Bundling wood and other materials for safer handling
- Masking off during building work
- Sealing bags and pallet wrapping to protect from weather

Adhesive type

Cross-linked solvent based rubber-resin

Technical

Thickness: 0.11 mm
Breaking load: 20 N/cm
Elongation: 120%
Adhesion to Steel: 2.0 N/cm
Adhesion to Self: 0.6 N/cm
Service Temperature: -5°C to +60°C





Standard colour



AT502 - 30 Micron Aluminium Foil Tape

Reliable Source reference
RS502

Features

-  Flame retardant and self-extinguishing
-  Good high temperature resistance
-  Easy unwind and tear
-  Excellent water vapour resistance

Applications

- Sealing glazed units in double glazing industry
- Sealing cold store insulation
- Heat reflection
- Joining foil faced, glass fibre or rockwool
- Sealing metal or plastic ducting

Adhesive type

Dispersion acrylic

Technical

Thickness: 0.07 mm
Breaking load: 12 N/cm
Elongation: 5%
Adhesion to Steel: 3.6 N/cm
Service Temperature: -20°C to +110°C

Specifications

BS476 Part 6 and 7 Category 1,
Fire Class M1 and Class 0

Standard colour



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Disclaimer:

Tape performance in multiple applications can be affected by various factors. These factors are often not within the control of Advance Tapes. Having better knowledge and control of individual applications and methods of use, end users of the product are responsible for evaluating the suitability for a particular application and for identifying that the product is fit for the purpose. Customers should satisfy themselves that the tape is suitable for their requirements in a particular application prior to use.