Adding more to adhesive tape

NUCLEAR RANGE

2027/28



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

ADVANCE®

NUCLEAR

PROFESSIONAL QUALITY NUCLEAR TAPES

Choose from a specialised range of adhesive tapes designed for both indoor and outdoor applications within nuclear environments. Our products are developed to meet the rigorous demands of professionals working in critical safety, maintenance, and construction roles across the nuclear industry.

To make tape selection easier, we've consolidated key technical specifications, certifications, and performance features into one streamlined, easy-to-use brochure.

This brochure highlights a focused selection from our broader portfolio. Nuclear-Grade products are available on our website: **www.advancetapes.com**

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AT712 - Nuclear Tape

Features
- Low halogen content
- Clean peel from most surfaces*
- Water resistant
- Abrasion resistant
- Meets PMUC requirements and is classified M1 Minimal reaction to specialised steel surfaces

Applications
- Joining sheeting and sealing bags.
- 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

AT506 - Aluminium Foil Tape 50 Micron

Features
- Flame retardant
- Resistant to extreme temperatures
- Easy unwind and tear
- Excellent water vapour resistance

Applications
- Sealing metal or plastic ducting in nuclear power stations
- Insulation of heater casings and high pressure steam pipe insulation.
- Sealing cold store insulation.
- Heat reflection.
- Protection during welding

Adhesive type
Dispersion acrylic

Technical
Service Temp: -40°C to +110°C

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

Halides 1000PPM Max Total and Sulphur 1000PPM Max

Standard colour



AT163 - All Weather 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



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



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

Applications
- Splicing and joining during manufacturing processes.
- Protection of turbine blades during refurbishment.
- Joining heavy duty PE sheeting and wall boards.
- Stone chip protection.

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



AT68 - Easy Tear PVC Protection Tape

Features
- Easy unwind
- Low tack
- Clean Peel (up to 4 weeks)
- Water and UV Resistant
- Abrasion Resistant
- Temperature Resistant
- Conformable

Applications
- Masking off and protection during decorating and renovation
- Labelling of parts

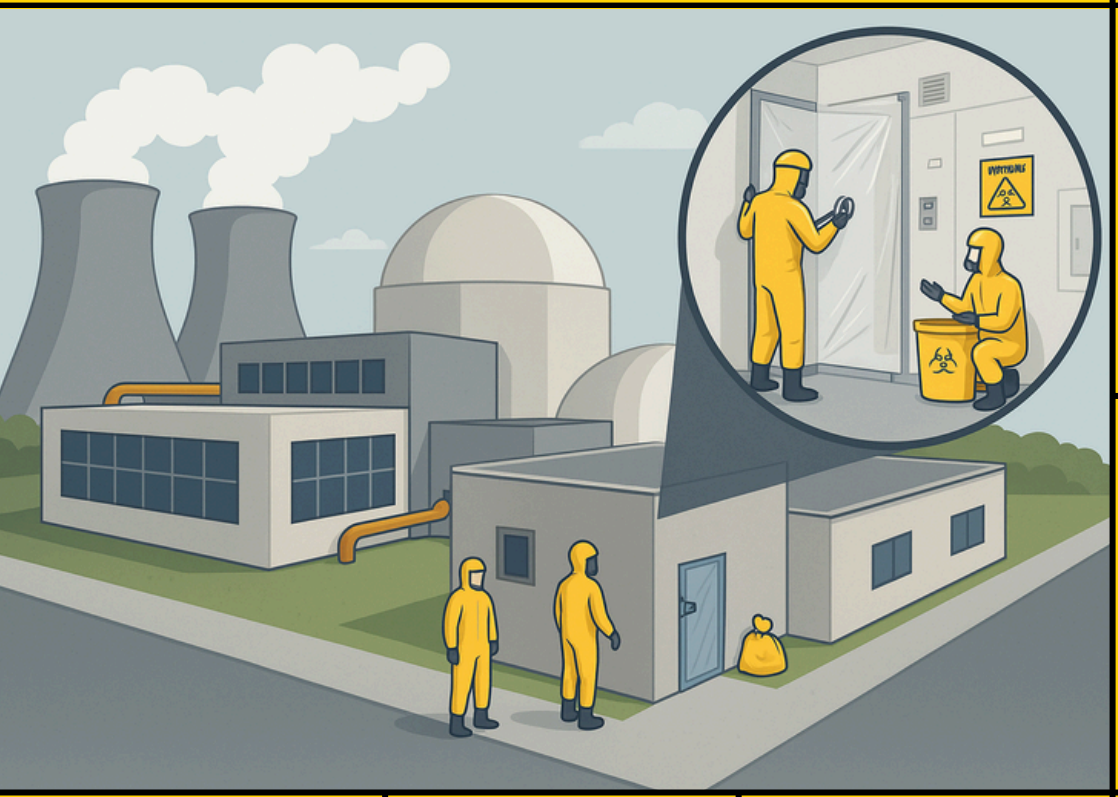
Adhesive type
Cross-linked solvent based rubber-resin

Technical
Thickness: 0.15 mm
Breaking Load: 21 N/cm
Elongation: 100%
Adhesion to Steel: 1.7 N/cm
Adhesion to Self: 1.6 N/cm
Service Temperature: -5°C to +60°C
RoHS Compliant: Yes

Standard colours



TAPES IN THE NUCLEAR INDUSTRY



PRODUCT INFO

AT712 - Nuclear Tape

Nuclear Tape, AT712, has been specifically designed for use in nuclear power plants and submarines.

AT712 features clean peeling coated with an aggressive, white pressure sensitive solvent free rubber resin adhesive.
Our Nuclear tape is manufactured to a low halogen content and maximum protection against contamination from paper fibres and other residue.

Specifications total Halides 1000PPM Max Total and Sulphur 1000PPM Max corresponds with PMUC requirements.

AT506 - Aluminium Foil Tape 50 Micron

AT506 is an aluminium tape that offers a very safe performance where risk of fire is an issue. Meeting various specifications, it offers top end performance and durability, even against extreme temperatures.

AT506 conforms to:
BS476 Part 6 & Part 7 Category 1 - Fire
Class M1
Class O

AT506 also meets specifications total Halides 1000PPM Max Total and Sulphur 1000PPM Max, which make it ideal for sealing metal or plastic ducting in nuclear power stations.

AT68 - Easy Tear PVC Protection Tape

AT68 is a protection tape designed for the many different requirements of professionals in the nuclear industry.

The tape is ideally suited to outdoor exposure with excellent UV, water and abrasion resistance. The adhesive used for AT68 is low staining and does not result in rust or corrosion of underlying surfaces.

AT68 offers extra protection to smooth and difficult surfaces, even in extreme temperature conditions (from -5°C to +60°C).

AT6102 - Polythene Protection Tape

AT6102 is solvent free water-based adhesive, which makes it a environmentally responsible tape option.

This tape is waterproof, UV resistant and clean peel, so it's perfect for the joining of sheeting to delicate surfaces all around a nuclear site.

With a temperature range of -40ºC to +60ºC, AT6102 is frost resistant, making it the perfect adhesive tape for all seasons.

AT160 - Premium Matt Waterproof Cloth Tape

AT160 is another great tape against adverse weather conditions. It is able to withstand long term outdoor exposure across a variety of temperatures

Suitable for abrasion, punctures and water, this tape is in an upper bracket of quality. This tape is suitable for many applications in the nuclear industry.

AT160 conforms to DEF. STAN. 81-145 2a.

AT163 - All Weather Duct Tape

AT163 is a perfect tape to battle the elements inside the nuclear industry.

This duct tape has a thermosetting adhesive which makes it useful as a temperature indicator as thermosetting occurs at temperatures above +110°C.

AT163 is not only extremely flexible and conforms to bends and contours, it has excellent strength and adhesion allowing it to be used for a variety of applications.

AT163 also has excellent resistance to water and saltwater.

Why Advance Tapes?

EXCELLENT CUSTOMER SERVICE

Advance prides itself in understanding exact customer requirements and works hard to deliver excellent service for every order.

93.6% OTIF
Average service performance
(On Time In Full)

Contact us!

Call: 00 44 (0)116 251 0191
Email: sales@advancetapes.com
www.advancetapes.com

99.2% CUSTOMER SATISFACTION
Our average level of customer satisfaction in 2023 for the group

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 method of use, end users of the product are responsible for evaluating the suitability for a particular application and to ensure that any specifications are met as required to ensure 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.

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