

Technical data sheet



Product: 425, 427

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: KLEBEBAND

Article group: EINSEITIG

Download: 29.04.2026

3M 425 & 427 ALUMINIUM FOIL TAPE

This data sheet was provided to you by Tewipack Uhl GmbH. The company tewipack Uhl GmbH assumes no responsibility for the topicality and the Accuracy of the information contained. The properties of the products can vary due to various influences such as composition and condition of the Substrate, impurities in or on the substrate, temperature and humidity at the Change storage and environmental conditions during use. Using this product in combination with other material, the customer is responsible for to check through our own tests whether the product is suitable for the planned combination and whether this combination delivers the expected results

Tewipack Uhl GmbH
Industriestraße 15
D-75382 Althengstett

Telephone:
+49(0)7051/9297-0
Fax:
+49(0)7051/9297-99

E-Mail:
info@tewipack.de
Website:
www.tewipack.de

Managing director:
Alexander Uhl,
Michael Uhl
HRB 330424
Amtsgericht
Stuttgart

Bank details:
Sparkasse
Sindelfingen
Pforzheim
Calw
BLZ 666 500
85
Konto 17 787

Commerzbank
Sindelfingen
BLZ 603 400 71
Konto 8 001 166

Vereinigte
Volksbank AG
Böblingen
BLZ 603 900 00
Konto 80 089
003

Postbank
Stuttgart
BLZ 600 100
70
Konto 146
294 708



Aluminium Foil Tape 425 & 427

Product Data Sheet

September 2022
Supersedes: March 2014

Product Description

3M™ Aluminium Foil Tapes 425 and 427 are 70µm nominal dead soft aluminium foil backings combined with a transparent acrylic adhesive.

3M™ Aluminium foil tape 427 offers an easy-release liner.

Key Features

- The very low moisture vapour transmission rate makes these tapes a good sealant.
- The acrylic adhesive, combined with the durable aluminium backing, offers ideal properties for long serviceable life in and outdoors.
- Good candidate as a maskant in electroplating of aluminium because it will not contaminate the bath.
- Aluminium backing provides good reflection of both, heat and light.
- Best results obtained when applied to a clean, dry surface above 0°C.

Physical Properties

Adhesive Type	Acrylic
Thickness (ASTM D-3652)	
Backing	0,07 mm
Adhesive layer	0,05 mm
Total tape thickness w/o liner	0,12 mm
Easy-Release Liner for tape 427	0,08 mm
Tape Colour	Shiny silver

Performance Characteristics

	425	427
Adhesion to Stainless Steel Aluminium foil tape 425 (ASTM D- 3330)	51N/100mm	55N/100mm
Approximate Weight	238 g/m ²	
Water Vapour Transmission Rate (ASTM D- 3833)	0,2 g/m ² /24hrs.	
Tensile Strength (ASTM-D-3759)	490 N/100mm	490 N/100mm
Elongation at Break (ASTM D-3759)	6%	6%
Temperature Use Range	-55°C-150°C	

Application ideas

Aircraft paint stripping maskant

- Moisture barrier in “white goods” appliances.
- General purpose heat reflector and heat dissipater
- Mechanically hold wires and cooling coils in “white good” appliances.
- Repair tears on trucks trailers and aircraft.
- Splicing of thin gauge foils.
- General purpose holding, patching, sealing application – indoors and out.

Certifications

- Flame resistant. Meets U.L. 746 (File E 122798) and 723, Class “L” low flammability rating (file 7311)
- 3M™ Aluminium Foil Tape 425 can be certified to meet SAE-AMS-T 23397, L-T-80C and ABS 5604.
- Meets requirements of F.A.R. 25.853(a).

Storage

Store under normal conditions of 16°C - 27°C and 40-60% relative humidity in the original carton.

Shelf Life

To obtain best performance, use this product within 24 months from date of manufacture.

For Additional Information

To request additional product information or to arrange for sales Assistance, go to www.3M.be/bonding or www.3M.nl/bonding

Automotive Disclaimer

Automotive Applications: This product is an industrial product and has not been designed or tested for use in certain automotive applications, including, but not limited to, automotive electric powertrain battery or high voltage applications. This product does not fully adhere to typical automotive design or quality system requirements, such as IATF 16949 or VDA 6.3. This product may not be manufactured in an IATF certified facility and may not meet a Ppk of 1.33 for all properties. The product may not undergo an automotive production part approval process (PPAP). Customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer’s automotive application and for conducting incoming inspections before use of the product. Failure to do so may result in injury, death, and/or harm to property. No written or verbal statement, report, data or recommendation by 3M related to automotive use of the product shall have any force or effect unless in an agreement signed by the Technical Director of 3M’s Automotive Division. Customer assumes all responsibility and risk if customer chooses to use this product in an automotive electric powertrain battery or high voltage application, and 3M will not be liable for any loss or damage arising from or related to the 3M product or customer’s use of the product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity or recall costs), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability. In no event shall 3M be liable for any damages in excess of the purchase price paid for the product.

NOTWITHSTANDING ANY OTHER STATEMENT TO THE CONTRARY, 3M MAKES NO REPRESENTATIONS, WARRANTIES OR CONDITIONS WHATSOEVER, EXPRESS OR IMPLIED, REGARDING THE PRODUCT IF USED IN AN AUTOMOTIVE ELECTRIC POWERTRAIN BATTERY OR HIGH VOLTAGE APPLICATION, INCLUDING, BUT NOT LIMITED TO, ANY WARRANTY ON PERFORMANCE, LONGEVITY, SUITABILITY, COMPATIBILITY, OR INTEROPERABILITY, OR ANY IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, OR ARISING OUT OF A COURSE OF DEALING, CUSTOM, OR USAGE OF TRADE.

Important Notice

All statements, technical information and recommendations contained in this document are based upon tests or experience that 3M believes are reliable. However, many factors beyond 3M's control can affect the use and performance of a 3M product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M product to determine whether it is fit for a particular purpose and suitable for the user's method or application. All questions of liability relating to this product are governed by the terms of the sale subject, where applicable, to the prevailing law

Values presented have been determined by standard test methods and are average values not to be used for specification purposes. Our recommendations on the use of our products are based on tests believed to be reliable but we would ask that you conduct your own tests to determine their suitability for your applications. This is because 3M cannot accept any responsibility or liability direct or consequential for loss or damage caused as a result of our recommendations

3M is a trademark of 3M Company.



Industrial Adhesives & Tapes Division
3M Belgium
Hermeslaan 7
1831 Diegem
Belgium

Industrial Adhesives & Tapes Division
3M Nederland
Molengraafsingel 29
2629 JD Delft
Nederland