

Technical data sheet



Product: 425, 427

Manufacturer: 3M DEUTSCHLAND GMBH

Product group: KLEBEBAND

Article group: EINSEITIG

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3M 425 & 427 ALUMINIUM FOIL TAPE

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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

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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

Adhesion to Stainless Steel Aluminium foil tape 425 (ASTM D- 3330)	425	427
	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	490
	N/100mm	N/100mm
Elongation at Break (ASTM D-3759)	6%	6%
Temperature Use Range	-55°C-150°C	

Application ideas	<p>Aircraft paint stripping maskant</p> <ul style="list-style-type: none"> ▪ 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	<ul style="list-style-type: none"> ▪ 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
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Industrial Adhesives & Tapes Division 3M Belgium Hermeslaan 7 1831 Diegem Belgium	Industrial Adhesives & Tapes Division 3M Nederland Molengraafsingel 29 2629 JD Delft Nederland
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