

3M™ Metal Foil Tapes

Choice of high performance foil tapes

With a choice of conformable backings and adhesives, this line of tapes meets demanding applications in Aerospace, Appliance, Transportation, Construction, Automotive, and MRO (Maintenance and Repair) segments.

3M™ Aluminum Foil Tapes

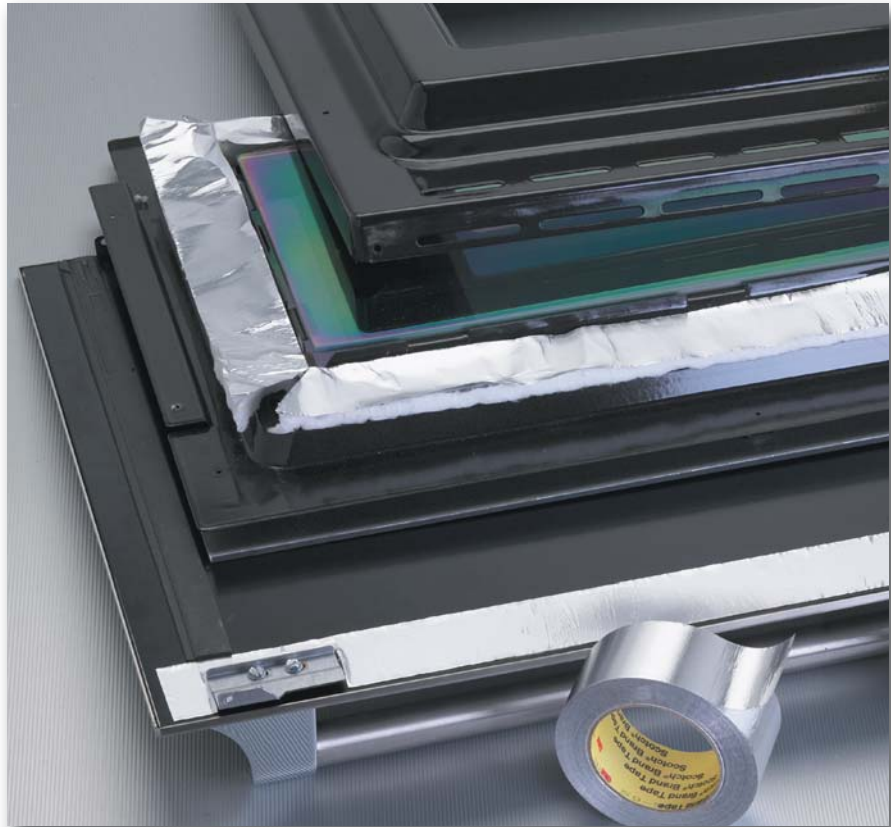
- Resist flame, moisture, weather, UV degradation, and most chemicals
- Thermally conductive for heating/cooling efficiency
- Heat and light reflective

3M™ Aluminum Foil Reinforced Tapes

- Flexible flame-resistant wrap for wires and hoses
- Long wearing, tear and puncture resistant
- Flame and heat resistant

3M™ Lead Foil Tapes

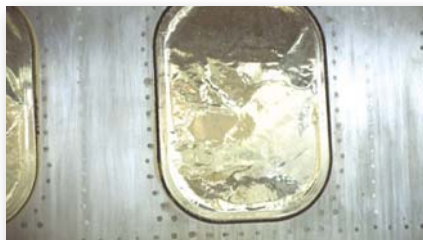
- Electrically conductive
- Acid resistant for plating masking
- Radiopaque for X-ray markers



3M™ Aluminum Foil Tape bonds on contact as heat shielding inside an oven door. Helps keep the exterior cool to the touch behind the handle and around the window perimeter.



With aggressive adhesive and dead soft aluminum, Scotch® Foil Tape 3311 seals and secures seams and joints for long-term durability. UL 723 Listed for duct sealing and general repairs.



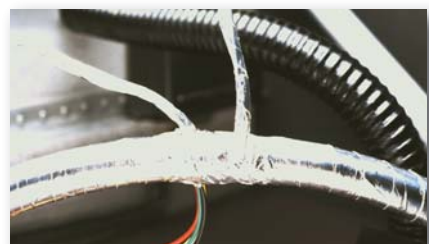
With conformability and chemical resistance, 3M™ Aluminum Foil Tapes protect aircraft windows during harsh chemical paint stripping.



With high heat reflectivity and thermal conductivity, 3M™ Aluminum Foil Tapes protect heat-sensitive components near lights in a garage door opener housing.



3M™FSK Facing Tape 3320 is engineered specifically as a vapor retardant tape to seal mineral wool foil-faced insulation, bare sheet metal ducts, and blanket style fiberglass duct insulation.



Tear-resistant 3M™ Reinforced Aluminum Foil Tape 363 bundles wire harnesses and helps protect wires, cables, and other flexible parts from heat.



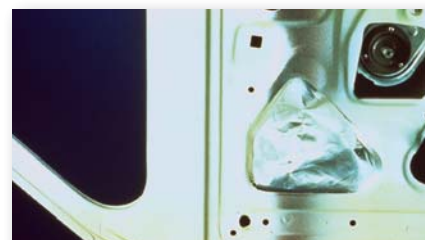
269

Conformable 3M™ Aluminum Foil Tape securely holds copper cooling tubes to refrigerator panels. Thermal conductivity helps maximize cooling efficiency.



270

To seal fiberglass duct board and flexible duct systems, Scotch® Foil Tape 3326 meets the performance requirements for UL 181A-P and UL 181B-FX.



271

Applied over holes and cavities in the interior of a car or truck door panel, 3M™ Aluminum Foil Tape seals out moisture and dust.

Product Information:

Product	Tape Structure (Backing/Adhesive)	Backing Thickness mils (mm)	Total Thickness mils (mm)	Adhesion to Steel oz./in. (N/100 mm)	Tensile Strength lbs./in. (N/100 mm)	Elongation at Break %	Temperature Range °F (°C)	Comments
ASTM Test Method:		D-3652	D-3652	D-3330	D-3759	D-3759		
Premium Performance Aluminum Foil Tapes								
425	Aluminum/Acrylic	2.8 (0.07)	4.6 (0.12)	47 (51)	30 (525)	8	-65 to 300°F (-54 to 149°C)	Most versatile aluminum tape. ^{1,2,3,4}
427	Aluminum/Acrylic	2.8 (0.07)	4.6 (0.12)	50 (55)	30 (525)	8	-65 to 300°F (-54 to 149°C)	Lined version 425 tape. ^{2,3,4}
431	Aluminum/Acrylic	1.9 (0.05)	3.1 (0.08)	41 (45)	19 (338)	5	-65 to 300°F (-54 to 149°C)	Conformable aluminum tape. ³
433	Aluminum/Silicone	2.0 (0.05)	3.6 (0.09)	40 (43.8)	20 (350)	3.5	-65 to 600°F (-54 to 316°C)	MIL-T-47014. ³
433L	Aluminum/Silicone	2.0 (0.05)	3.5 (0.09)	38 (42)	20 (350)	3.5	-65 to 600°F (-54 to 316°C)	Lined 433 tape. ³
438	Aluminum/Acrylic	5.0 (0.13)	7.2 (0.18)	43 (47)	59 (1033)	10	-65 to 300°F (-54 to 149°C)	Thickest aluminum tape. ³
439	Aluminum/Acrylic	1.9 (0.05)	3.1 (0.08)	41 (45)	18 (315)	3	-65 to 300°F (-54 to 149°C)	Lined version 431 tape. ³
HVAC & Refrigeration Aluminum Foil Tapes								
3311	Aluminum/Rubber	2.0 (0.05)	3.6 (0.09)	90 (98)	17 (298)	3	-10 to 180°F (-23 to 82°C)	UL 723 listed, lined.
3326	Aluminum/Acrylic	2.3 (0.06)	4.4 (0.11)	70 (77)	25 (438)	4	-20 to 250°F (-29 to 121°C)	UL 181A-P & 181B-FX listed, printed backing, lined.
General Purpose Aluminum Foil Tapes								
1449	Aluminum/Acrylic	1.4 (0.04)	2.6 (0.07)	37 (40)	19 (333)	11	-25 to 250°F (-32 to 121°C)	Thinnest aluminum tape for added conformability.
1450	Aluminum/Rubber	1.9 (0.05)	3.1 (0.08)	114 (125)	19 (333)	6	-40 to 200°F (-40 to 93°C)	High initial tack on low energy surfaces.
FSK (Foil Scrim Kraft) Tape								
3320	Foil/Scrim/Acrylic	6.0 (0.16)	6.1 (0.16)	81 (89)	40 (712)	2	-20 to 175°F (-29 to 79°C)	Vapor-retardant for sealing wool insulation, duct liner, sheet metal ducts and more.
Aluminum Foil Reinforced Tapes								
363	Aluminum/Glass Cloth/Silicone	3.4 (0.09)	7.3 (0.19)	67 (73)	135 (2364)	7	-65 to 600°F (-54 to 316°C)	Highest temperature metal tape. ³
1430	Aluminum/Nonwoven/Acrylic	5.0 (0.13)	5.5 (0.14)	22 (24)	19 (333)	12	-65 to 300°F (-54 to 149°C)	Flexible wrapping tape.
Lead Foil Tapes								
420	Lead/Rubber	4.7 (0.12)	6.8 (0.17)	45 (49)	20 (350)	12	-60 to 225°F (-54 to 106°C)	Lined plating tape.
421	Lead/Rubber	4.0 (0.10)	6.3 (0.16)	31 (34)	15 (263)	14	-60 to 225°F (-54 to 106°C)	Unlined plating tape.

¹ Can be qualified to L-T-80B, SAE-AMS-T-23397 ² Meets U.L.723, Class L File R 7311 ³ F.A.R.25.853 (a) ⁴ Meets U.L.746C File E122798

Note: This technical information and data should be considered representative or typical only and should not be used for specification purposes.