3MHigh Temperature Aluminum Foil Tape

433L

Product Description	A dead soft aluminum foil backing combined with a silicone adhesive and a clear easy-release film liner that can be used in many high temperature applications.					
Construction	Backing	Adhesive	Color	Liner	Standard Roll Length	
	Aluminum Foil (alloy 1100-0 or 1145-0)	Silicone (White)	Shiny Silver	Clear, Easy- Release Film	60 yds. (55 m)	
Typical Physical Properties and Performance	Note: The following technical information and data should be considered representative or typical only and should not be used for specification purposes. ASTM Test Method					
Characteristics	Adhesion to Steel:	34 oz./in width (37 N/100 mm)			D-3330	
	Tensile Strength:		width (403 N/1	D-3759		
	Elongation at Break:	4%	•	D-3759		
	Backing Thickness:	2.2 mils (.0	2.2 mils (.056 mm)		D-3652	
	Total Tape Thickness:	3.4 mils (.0	3.4 mils (.086 mm)		D-3652	
	Liner Thickness:	2.9 mils (.0	2.9 mils (.074 mm)			
	Water Vapor Transmission Rate:		.1 gms (H_2 0/100 sq. in./24 hrs. (1.55 g/m²/24 hrs.)		D-3833	
	Temperature Use Range Permanent Appl. Removable Appl.	-65°F to 60	-65°F to 600°F (-54°C to 316°C) -65°F to 375°F (-54°C to 190°C)			
	Weight:	.0096 lbs./yd./in. width (.0049 kg/m/24			mm)	
General Information	• 433L tape can easily be die-cut into special sizes or shapes.					
	 Best results obtained when applied to a clean surface above 32°F (0°C). 					
	• Store in a clean dry place at 60-80°F (15-27°C) and 40-50% relative humidity no longer than 18 months from date of manufacture.					
	 Good holding, splicing, sealing, patching or general protecting tape on many applications involving high temperatures. 					
	• Performance range from -65°F to over 600°F (-54°C to over 316°C). Adhesive will gradually thermoset at high temperatures. As it thermosets, the adhesive mass becomes firm and gradually loses its pressure sensitivity but will continue to hold the tape in place.					

Flame resistant – will not support combustion. Meets F.A.R. 25.853(a).
Aluminum backing provides excellent reflection of both heat and light.

High Temperature Aluminum Foil Tape

433L

Application Ideas

- Moisture barrier around doors and windows to help prevent fogging of glass
- Seal for automotive air bag inflators
- · To hold insulation on hot air ducts in industry
- Cover resistance wire heating elements to help distribute the heat
- Splice jumbo rolls of aluminum foil or holding the last lap of narrow width rolls in preparation to annealing the rolls. (NOTE: The use of 3M Tape Primer can help improve the bond on many oily surfaces.)
- As a heat reflective wrap used in conjunction with insulation, tube, cables, or where otherwise required for high heat protection
- Maskant of metal during plastic coating

Features	Advantages	Benefits
Aluminum foil backing	Excellent protection	Helps protect parts from water, dust or chemical damage
	Heat reflective	Helps protect from heat damage
	• Flame resistant	• Will not aid combustion
Silicone adhesive	Wide temperature range	Will seal or help protect even under extreme temperature conditions

For Additional Information

To request additional product information or to arrange for sales assistance, call toll free 1-800-227-5085. Address correspondence to: 3M Industrial Tape and Specialties Division, 3M Center, Building 220-8E-04, St. Paul, MN 55144-1000. Our fax number is 612-733-9175. In Canada, phone: 1-519-451-2500. In Puerto Rico, phone: 1-809-750-3000. In Mexico, phone: 5-728-0400.

Important Notice

3M MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. User is responsible for determining whether the 3M product is fit for a particular purpose and suitable for user's method of application. Please remember that many factors can affect the use and performance of a 3M ITSD product in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a 3M ITSD product. Given the variety of factors that can affect the use and performance of a 3M ITSD product. Some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the 3M ITSD product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

Limitation of Remedies and Liability

If the 3M product is proved to be defective, THE EXCLUSIVE REMEDY, AT 3M'S OPTION, SHALL BE TO REFUND THE PURCHASE PRICE OF OR TO REPAIR OR REPLACE THE DEFECTIVE 3M PRODUCT. 3M shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including negligence, warranty, or strict liability.



This Industrial Tape and Specialties Division product was manufactured under a 3M quality system registered to ISO 9002 standards.





10% post-consumer