3M

High Temperature Aluminum Foil Tape

433 • 433L (Linered)

Product Description	3M TM High Temperature Aluminum Foil Tape 433 has a silicone adhesive that can be used in many high temperature applications. Also comes in an easy-release film line							
Product Construction	Backing	Adhe	hesive Color		Liner (3M tape 433L)		Standard Roll Length 60 yds. (55 m)	
	Aluminum foil Sili (Alloy 1100-0) (cle			Shiny silver		Clear, easy- release film		
Typical Physical Properties	Note: The following technical information and data should be considered representation or typical only and should not be used for specification purposes.							
	ASTM Test Meth							
	Adhesion to Stee	el:		pe 433 e 433L		z./in. width (43.8 N/100 m z./in. width (42.0 N/100 m		D-3330 D-3330
	Tensile Strength:	:			20 lb	s./in. width (350 N/100 m	ım)	D-3759
	Elongation at Bro	eak:			3.5%	, D		D-3759
	Backing Thickne	ss:			2.0 n	nils (0.05 mm)		D-3652
	Total Tape Thick	ness:		pe 433 e 433L		nils (0.09 mm) nils (0.09 mm)		D-3652 D-3652
	Liner Thickness:		3M tap	e 433L	2 .9 ı	mils (0.07 mm)		D-3652
	Liner Thickness: Water Vapor Transmission		3M tap	e 433L	0.1 g	mils (0.07 mm) gms H_2 O/100 sq. in./24 hr $_5$ g/m²/24 hrs.)	S.	D-3652
	Water Vapor	Rate: e Ranç opl.		e 433L	0.1 g (1.55	ıms H₂O/100 sq. in./24 hr	S.	D-3652 D-3833

- Best results obtained when applied to a clean surface above 32°F (0°C), but tape can be applied from 0°F to 200°F (-18°C to 93°C).
- 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.

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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 distribute the heat.
- Splice jumbo rolls of aluminum foil or holding the last lap of narrow width rolls in preparation to annealing the rolls.
- Ideal as a heat reflective wrap along or over insulations, applied to tubes, engine support structures, missile ground handling equipment, or as a protector from other heat source areas such as hot areas in steel mills.
- Good holding, splicing, patching or general protecting tape on many applications involving high temperatures.

Storage

Store under normal conditions of 60° to 80° F (16° to 27° C) and 40 to 60% R.H. in the original carton.

Shelf Life

To obtain best performance, use this product within 18 months from date of manufacture.

Product Use

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 of application.

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ISO 9001:2000

This Industrial Adhesives and Tapes Division product was manufactured under a 3M quality system registered to ISO 9001:2000 standards.



Industrial Business Industrial Adhesives and Tapes Division

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