

Technical Data Sheet

3M Aluminum Foil/Reinforced Tape 1430

Product Description

3M™ Aluminum Foil/Reinforced Tape 1430 is a dead soft aluminum foil tape combined with a non-woven web. It has a pressure sensitive adhesive and offers the superior sealing benefits of foil with the ease of handling and strength of cloth.




Product Features






- Can be easily torn by hand.
- Aluminum backing provides an excellent reflective surface for both heat and light.
- Performs from -56°F (-54°C) to 300°F (149°C) continuously and has been known to perform when exposed to temperatures in excess of 400°F (204°C) for shorter periods of time. Generally, adhesive transfer occurs on removal when the higher temperature limits are reached.
- Provides an excellent moisture barrier and ultimate adhesion level.
- It conforms better and does not puncture and tear as easily as many thin foil tapes that come on a liner.
- Because of its excellent handling and edge sealing qualities, it's much easier and faster to apply than many of the standard foils, especially the lined foils.
- It can be applied to many complex shapes and contoured surfaces easily.
- Best results attained when applied to a clean, dry surface above 32°F (0°C).

Technical Information Note






The following technical information and data should be considered representative or typical only and should not be used for specification purposes.





Typical Physical Properties

Property	Values	Additional Information
Adhesive Type	Transparent Acrylic	
Color	Shiny Silver	
Backing Thickness	0.03 mm	View 
Test Method: ASTM D3652		
Notes: Foil		
Backing Thickness	0.1 mm	View 
Test Method: ASTM D3652		
Notes: Non-woven web		
Total Tape Thickness (mil)	5.5 mil	View 
Test Method: ASTM D3652		

Total Tape Thickness (mm)	0.14 mm	View 
Test Method: ASTM D3652		
Backing Thickness	1 mil	View 
Test Method: ASTM D3652		
Notes: Foil		
Backing Thickness	4 mil	View 
Test Method: ASTM D3652		
Notes: Non-woven web		
Water Vapor Transmission	1.55 g/m ² /24 hr	View 
Test Method: ASTM D3833		
Water Vapor Transmission	0.1 g/100 in ² /24 hr	View 
Test Method: ASTM D3833		

Typical Performance Characteristics

Property	Values	Additional Information
Tensile Strength	333 N/cm	View 
Test Method: ASTM D3759		
180° Peel Adhesion	2.4 N/cm	View 
Test Method: ASTM D3330		
Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	22 oz/in	View 
Test Method: ASTM D3330		
Notes: 12 in/min (300 mm/min)		
Tensile Strength (lb/in)	19 lb/in	View 
Test Method: ASTM D3759		
Elongation at Break (%)	12 %	View 
Test Method: ASTM D3759		

Long Term Temp C	106 °C	View 
Test Condition: Long Term (day, weeks)		
Minimum Long Term Temperature Resistance	-54 °C	View 
Test Condition: Long Term (day, weeks)		
Long Term Temp F	300 °F	View 
Test Condition: Long Term (day, weeks)		
Minimum Long Term Temperature Resistance	-65 °F	View 
Test Condition: Long Term (day, weeks)		

Available Sizes

Property	Values	Additional Information
Standard Roll Length	55 m	
Standard Roll Length	60 yd	

Storage and Shelf Life

Store under normal conditions of 60° to 80°F (16° to 27°C) and 40 to 60% R.H. in the original carton. To obtain best performance, use this product within 18 months from date of manufacture.

Automotive Disclaimer

Select Automotive Applications: This product is an industrial product and has not been designed or tested for use in certain automotive applications, such as automotive electric powertrain battery or high voltage applications, which may require the product to be manufactured in a IATF certified facility, meet a Ppk of 1.33 for all properties, undergo an automotive production part approval process (PPAP), or fully adhere to automotive design or quality system requirements (e.g., IATF 16949 or VDA 6.3). Customer assumes all responsibility and risk if customer chooses to use this product in these applications.

Bottom Matter

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Handling/Application Information

Application Examples

- Sealing or protecting of complex shapes or contoured surfaces.
- Excellent general purpose duct sealing.
- Moisture barrier around windows.
- Electronic sensing of splices for flexible materials.

- Insulation wrap for hoses and other flexible parts.
- Seaming of insulation board.
- General sealant indoors or out.

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b40067996/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=1430

Family Group

Link Tags:

- 1430

Products	Long Term Temp C
1430	106 °C

ISO Statement

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

Information

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