

Technical Data Sheet

3M™ High Temperature Aluminum Foil/Glass Cloth Tape 363

Product Description

3M™ High Temperature Aluminum Foil/Glass Cloth Tape 363 can be used as a high temperature, heat reflective, protective wrap for certain cables and other components in aerospace and industrial applications. Also comes in an easy-release film liner (3M™ High Temperature Aluminum Foil/Glass Cloth Tape 363L).



Product Features





- Can easily be die-cut into special sizes or shapes.
- Light, flexible construction – easily applied to a variety of irregular shapes.
- Performs continuously from -65°F (-54°C) to 600°F (316°C).
- Meets the requirements of FAR 25.853(a).
- Meets the surface flammability and smoke density requirements for all categories and material functions as specified by NFPA 130 - Per ASTM E162 and ASTM E662.
- Exhibits low, average, and peak rates of heat release - per ASTM E1354.
- Generates low levels of toxic gas in both flaming and non-flaming modes - per BSS-7239.
- Best results obtained when applied to a clean dry surface above 32°F (0°C), but can be applied at lower temperatures.

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
Backing	Aluminum foil laminated to glass cloth	
Adhesive Type	Silicone (transparent)	
Color	Silver	
Backing Thickness	0.025 mm	View 
Test Method: ASTM D3652		
Notes: Foil		
Backing Thickness	0.06 mm	View 
Test Method: ASTM D3652		
Notes: Glass Cloth		

Total Tape Thickness (mil)	7.3 mil	View 
Test Method: ASTM D3652		
Total Tape Thickness (mm)	0.19 mm	View 
Test Method: ASTM D3652		
Backing Thickness	1 mil	View 
Test Method: ASTM D3652		
Notes: Foil		
Backing Thickness	2.4 mil	View 
Test Method: ASTM D3652		
Notes: Glass Cloth		
Approximate Weight	0.0057 g/m/24 mm	
Approximate Weight	0.0114 lb/yd/in	


Typical Performance Characteristics

Property	Values	Additional Information
Tensile Strength	236.4 N/cm	View 
Test Method: ASTM D3759		
180° Peel Adhesion	5.7 N/cm	View 
Test Method: ASTM D3330		
Notes: 12 in/min (300 mm/min)		
180° Peel Adhesion	52 oz/in	View 
Test Method: ASTM D3330		
Notes: 12 in/min (300 mm/min)		
Tensile Strength (lb/in)	135 lb/in	View 
Test Method: ASTM D3759		
Elongation at Break (%)	7 %	View 

Test Method: ASTM D3759

Long Term Temp C	316 °C	View 
Test Condition: Long Term (day, weeks)		

Minimum Long Term Temperature Resistance	-54 °C
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Long Term Temp F	600 °F	View 
Test Condition: Long Term (day, weeks)		

Minimum Long Term Temperature Resistance	-65 °F
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Available Sizes

Property	Values	Additional Information
Standard Roll Length	33 m	
Standard Roll Length	36 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 36 months from date of manufacture.

Industry Specifications

- FAR 25.853(a)
- [NFPA 130 test report for details \(ASTM E1354\)](#)
- [NFPA 130 test report for details \(ASTM E162\)](#)
- [NFPA 130 test report for details \(ASTM E662\)](#)
- [NFPA 130 test report for details \(BSS 7239\)](#)

Automotive Disclaimer

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Bottom Matter

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Trademarks

3M is a trademark of 3M Company.

Handling/Application Information

Application Examples

- A heat reflective wrap, over insulation cables, instruments, or other high temperature sensitive materials.

References

Property	Values
3m.com Product Page	https://www.3m.com/3M/en_US/p/d/b40074779/
Safety Data Sheet SDS	https://www.3m.com/3M/en_US/company-us/SDS-search/results/?gsaAction=msdsSRA&msdsLocale=en_US&co=ptn&q=363

Family Group

Link Tags:

• 363

Products	Total Tape Thickness (mm)	Tensile Strength	Long Term Temp C	Long Term Temp F
363	0.19 mm	236.4 N/cm	316 °C	600 °F

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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