

June, 2018

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.



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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		Method
Color	Silver		
Total Tape Thickness	0.19 mm	7.3 mil	ASTM D3652
Backing	Aluminum foil laminated to glass cloth		
Adhesive	Silicone (transparent)		
Approximate Weight	0.0057 g/m/24 mm	0.0114 lb/yd/in	

Backing Thickness (nominal)		Notes
0.025 mm	1 mil	Foil
0.06 mm	2.4 mil	Glass Cloth

Property: Backing Thickness (nominal)

Method: ASTM D3652

Typical Performance Characteristics

Property	Values		Method	Substrate
Peel Adhesion	5.7 N/cm	52 oz/in	ASTM D3330	Stainless Steel
Tensile Strength	236.4 N/cm	135 lb/in	ASTM D3759	
Elongation at Break	7 %		ASTM D3759	
Temperature Use Range	-54 to 316 °C	-65 to 600 °F		

Available Sizes

Property	Values	
Standard Roll Length	33 m	36 yd

Handling/Application Information

Application Ideas

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

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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)

Information

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Trademarks

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References

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

ISO Statement

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

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