



# Technical Data Sheet

## 3M™ Scotch® Foil Tape 3311



[Product Details](#)



[Regulatory Info/SDS](#)

### Product Description

Scotch® Foil Tape 3311 is an aluminum alloy foil with a pressure-sensitive adhesive and paper liner. The aggressive rubber adhesive sticks well to most surfaces and the paper liner makes for convenient and reliable use.

### Product Features

- UL 723 rated for flame and smoke characteristics.
- Can be used under all weather conditions.
- Matches aluminum foil-faced duct systems and insulation.
- Designed for maximum adhesion over clean, dry surfaces. For best results, always use an application squeegee.
- Resists water vapor, odor and smoke transmission.
- Extremely conformable backing.
- Can be used over a wide temperature range.
- Acts as a vapor barrier to insure the integrity of the insulation system.

### 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

Attribute Name	Test Method	Value
Color		Silver
Adhesive Type		Rubber
Backing		Aluminum Alloy Foil
Backing Thickness	ASTM D3652	0.05 mm (2 mil)
Total Tape Thickness	ASTM D3652	0.09 mm (3.6 mil)
Liner Thickness		0.05 mm (2 mil)

### Typical Performance Characteristics

Attribute Name	Test Method	Temperature	Value
180° Peel Adhesion	ASTM D3330	22 °C (72 °F)	9.8 N/cm (90 oz/in) <sup>1</sup>
Elongation at Break	ASTM D3759		3 %
Tensile Strength	ASTM D3759		29.8 N/cm (17 lb/in)

<sup>1</sup> 12 in/min (300 mm/min)

Attribute Name	Test Method	Value
Application Temperature		-12.2 - 82.2 °C (10 to 180 °F)
Long Term Temperature Resistance		82 °C (180 °F) <sup>1</sup>
Minimum Long Term Temperature Resistance		-23 °C (-10 °F) <sup>1</sup>
Flame Spread Index	ASTM E84	10 <sup>2</sup>
Smoke Developed Index	ASTM E84	5 <sup>2</sup>

<sup>1</sup> Long Term (day, weeks)

<sup>2</sup> UL-723, NFPA 255, and UBC 8-1 are publications of the same test method.

## **Handling/Application Information**

### **Application Examples**

- Ideal for sealing aluminum faced insulation seams and joints.
- General repair and maintenance.
- Temporary and emergency repair of metal surfaces.
- Availability of 60 in (1.52 m) width allows for custom widths and die cuts.

## **Industry Specifications**

UL 723

## **Storage and Shelf Life**

Store in a clean, dry place. Temperature of 40-80°F (4-26°C) and 40 to 50% relative humidity are recommended. To obtain best performance, use this product within 24 months from date of manufacture.

## **Available Sizes**

<b>Attribute Name</b>	<b>Value</b>
Standard Roll Length	9.14, 45.7 & 548.6 m (10, 50 & 600 yd)
Standard Width	50.8 & 1520 mm (2 & 60 in)

## **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.

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3M  
Industrial Adhesives and Tapes Division  
3M Center, Building 225-35-06  
St. Paul, MN 55144-1000  
800-362-3550

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