

3M Application Profile: Heat Protection, Flame Resistance & Insulation



3M™ Foil Tape 425 can be used to help keep oven heat from passing through the door assembly where a consumer could potentially be burned.

Application Description:

Products with areas that generate heat and/or flames which can penetrate through openings or between joints can cause permanent damage to parts. A barrier is applied to slow or stop this intrusion.

Application Benefit:

- An additional insulation layer slows the heat transfer to the part, minimizing the risk of damage
- Tapes can assist with keeping heat sources from penetrating through openings or between joints by eliminating the need for additional parts which can add cost, weight, or take up vital space in the finished product



3M™ High Temperature Aluminum Foil/Glass Cloth Tape 363 can be used to wrap complex shapes, such as a wire bundle, providing a higher tear resistance than regular foil tape.

Key Application Requirements:

- Adheres to a variety of surfaces (plastics, metals, etc) with aggressive, long-lasting adhesion while providing temperature/heat & flame resistance
- Attaches and holds to a variety of surfaces in addition to adhering to its own backside

Engineered Industrial Tapes

For Aerospace, Automotive,
Appliance and General Industrial

Tape Benefits:

- **Conformability:** Ability to curve around complex shapes, geometries, and non-uniform surfaces, reaching difficult areas
- **Thin caliper:** Low-profile solution takes less space in final product
- **Long lasting:** Helps to minimize the risk of damage or failure over part(s) lifetime
- **Easy to apply/Immediate use:** Simply apply manually or with a tabletop dispenser
- **Customizable (Lined product):** Able to quickly and easily create shapes or sizes that are part specific

Products	
3M™ High Temperature Aluminum Foil/Glass Cloth Tape 363/363L (lined)	
3M™ Aluminum Foil Tape 427/427 (lined)	
3M™ Glass Cloth Tape 361	
3M™ Glass Cloth Tape 398FR (lined)	
3M™ Aluminum Foil Tape 437 (lined)	
Additional Applications	
Aerospace	Sealing seams of cargo bays
Automotive	Bundling cables
Appliance	Dishwasher wire bundles, microwave parts, oven doors
General Industrial	Splicing E-Mats, 3D Printer parts



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