



Flexeal duct insulation has a R-4.2 rating. It is comprised of 5 layers. First, at the core is tough poly to provide durability. Next comes two layers of insulating bubbles that prevent heat flow. Lastly, a 96% reflective film surrounds the layers and controls heat radiating into or out of the ducts for improved efficiency. There's a full-length certification strip allowing inspectors to identify product specs quickly.

**With Staple  
Connect Edge**

### Benefits

- Non-toxic / non-carcinogenic
- Lowers heating and cooling costs year-round
- Fiber-free
- Lightweight and clean
- Resists growth of fungi, mold, mildew
- Does not promote nesting of birds, insects or rodents
- Does not require protective clothing or respirators to install
- Not affected by moisture or humidity

### Stock Sizes

**60"x100' / 48"x125'**

### Applications

Rectangular and round return and supply ductwork in HVAC systems

### Technical Data

<b>Temperature Range:</b>	- 60° to 180° F	<b>Reflectance (IR):</b>	96%
<b>Nominal Thickness:</b>	5/16 inch (.312)	<b>Water Vapor Transmission (ASTM E 96):</b>	0.02
<b>Weight:</b>	0.771 oz./sq. ft.	<b>Puncture Resistance:</b>	60 lb./in.
<b>Flame Spread Index (ASTM E 84):</b>	Less than 25	<b>Mold and Mildew:</b>	No Growth
<b>Smoke Developed Index (ASTM E 84):</b>	Less than 50	<b>Emittance:</b>	0.04
<b>Mounting Method (ASTM E 2599)</b>		<b>Tensile Strength:</b>	3.7 N/mm
<b>Fire Rating:</b>	Class A/Class 1	<b>Pliability:</b>	No Cracking
<b>Linear Shrinkage:</b>	None	<b>Hot Surface Performance:</b>	Passed (250F)

Note: Not for use in direct contact on surface temperatures that are 180F or greater.

### Testing & Certifications

- Thermal Performance ASTM C335
- Hot Surface Performance ASTM C411
- Flame Spread and Smoke Density ASTM E84
- Water Vapor Transmission ASTM E96
- Intertek: Surface Burning Characteristics of Building Materials
- Intertek: Surface Burning Characteristics of Building Materials ASTM E84
- Bleeding and Delamination ASTM C1668
- R&D Services: Resistance to the Growth of Fungi ASTM C1338-00 Test Report # RD072713FR
- R&D Services: Physical Properties Sheet Width, Length, Pliability, Water Vapor Permanence and Aged Water Vapor Permanence
- R&D Services: Water Vapor Transmission Test ASTM-E96 (Dessicant Method)
- R&D Services Emittance Testing ASTM C1371

### Manufacturer's Suggested Installation Instructions

NOTE: Installation instructions and illustrated drawings are recommendations only, while proper local construction methods are the responsibility of the installer.

#### 1 Standard Wrap (Circumference)

##### ROUND OR RECTANGULAR DUCTS

- Make sure all metal joints, seams and penetrations are sealed.
- Verify circumference of the duct.
- Cut the Flexeal® product to this length plus 1".
- Wrap the product around the duct and securely tape the linear and circumference seams (overlapping 1"- 2") with a UL181 Tape with Acrylic Adhesive (goal is an air-tight, snug seam seal). Do not leave any exposed duct or space where air can enter between the duct and the Flexeal®.

#### 2 Spiral Wrap Directly Against Duct

##### ROUND DUCTS

- Make sure all metal joints, seams and penetrations are sealed.
- Spiral wrap Flexeal® around the duct, overlapping 2" as you proceed.
- If necessary, trim width of product to accommodate bends or diameter changes in the duct.
- Securely tape seams with a UL181 Tape with Acrylic Adhesive (goal is an air-tight, snug seam seal).
- Do not leave any exposed duct or space where air can enter between the duct and the Flexeal®.