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Data Sheet

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2 Mil Tape Application Techniques

- Primarily used for sealing fiber glass FSK products and sheet metal ducts
- It is essential with all pressure-sensitive tapes the application surface is clean, dry and free of grease and oil.
- Bond strength is dependent upon uniform pressure and the amount of adhesive-to-surface contact with substrate.
- Note that different pressure, time and temperature on different (firm/ rigid) surfaces achieves different performance results.

ASJ Tape Application Techniques

- It is essential with all pressure-sensitive tapes the application surface is clean, dry and free of grease and oil.
- Bond strength is dependent upon uniform pressure and the amount of adhesive-to-surface contact with substrate.
- Note that different pressure, time and temperature on different (firm / rigid) surfaces achieves different performance results.

ASJ+ Tape Application Techniques

- It is essential with all pressure-sensitive tapes the application surface is clean, dry and free of grease and oil.
- Bond strength is dependent upon the amount of adhesive-to-surface contact developed.
- Note that different pressure, time and temperature on different (firm / rigid) surface achieves different performance.

FSK Tape Application Techniques

- Suitable for die-cut shapes, shielding, moisture and vapor barrier sealing components or lamination to insulation materials.
- It is essential with all pressure-sensitive tapes the application surface is clean, dry and free of grease and oil.
- Bond strength is dependent upon uniform pressure and the amount of adhesive-to-surface contact with substrate.
- Note that different pressure, time and temperature on different (firm / rigid) surfaces achieves different performance results.

All Tapes:

LEED® Point Contributor

- Contributes to Energy Atmosphere (SA) Credit 1
- Contributes to Indoor Environmental Quality (IEC) Credit 4.1

Cautions

The shelf life of the product is two year when stored at 18-22°C / 64-72°F, 30-70% relative humidity and out of direct sunlight, in original packaging.

EXPERT™ Tapes

- 2 Mil Foil Tape
- ASJ Tape
- ASJ+ Tape
- FSK Tape

EXPERT™ Tapes

EXPERT 2 Mil Foil Tape Description

Knauf Insulation EXPERT 2 mil foil tape is specifically engineered and designed for general purpose seaming, patching and sealing to enhance appearance while maintaining moisture barrier integrity. The 2 mil, (50 micron) high strength aluminum foil conforms well to both Foil Scrim Kraft (FSK) faced insulation and sheet metal ducts, providing an excellent seal at normal and elevated temperatures, up to 200° F .

Features

- Specially formulated for extreme climates
- Dead soft aluminum foil
- Excellent adhesion and quick stick properties
- Made in the USA
- Application temperature as low as 20° F

Benefits

- Conformability to curved surfaces
- Strong bond to a variety of substrates
- Meets Parts 2 and 5 of Annex 1 of the IMO FTP Code

- Approved for use by the US Coast Guard in accordance with International Maritime Org. (IMO)A.653(16) and ISO 65659
- PSA complies with South Coast Air Quality Management District's (SCAQMD) Rule 1168

Construction

Adhesive: Acrylic
Carrier: Aluminum Foil
Liner: 60# Densified Kraft
Width: 3 in. and 4 in.
Length: 150 feet

EXPERT ASJ Tape Description

Knauf Insulation Expert ASJ Tape is specifically engineered and designed for general purpose seaming, patching and sealing to enhance appearance while maintaining moisture and vapor barrier integrity for ASJ jacketed insulation products.

Features

- Specially formulated for extreme climates.
- Excellent adhesion and quick stick properties
- High-strength reinforced facestock
- Made in the USA
- Application temperature as low as 20°F

Benefits

- Excellent bond to Lamtec ASJ 30J insulation facing
- Excellent initial tack and long-term adhesion

- Meets ASTM C-1136 Types I, II, III, IV
- PSA complies with South Coast Air Quality Management District's (SCAQMD) Rule 1168

Construction

Adhesive: Acrylic
Carrier: Aluminum Foil
Liner: 60# Densified Kraft
Width: 3 in. and 4 in.
Length: 150 feet

EXPERT ASJ+ Tape Description

Knauf Insulation EXPERT ASJ+ Tape is specifically engineered and designed for general purpose seaming, patching and sealing to enhance appearance while maintaining moisture and vapor barrier integrity for ASJ+ jacketed insulation products.

Features

- Specially formulated for extreme climates.
- Excellent adhesion and quick stick properties.
- High-strength reinforced facestock.

- Made in the USA
- Application temperature as low as 20°F

Benefits

- Excellent bond to Earthwool ASJ+ facing and Lamtec WMP-ASJ
- Excellent initial tack and long-term adhesion
- Meets ASTM C-1136 Type I, Type II, Type III and Type IV
- PSA complies with South Coast Air Quality Management District's (SCAQMD) Rule 1168

Construction

Adhesive: Acrylic
Carrier: Polypropylene / Core / Scrim / Foil Laminate
Liner: 60# Densified Kraft
Width: 3 in. and 4 in.
Length: 150 feet

EXPERT FSK Tape Description

Knauf Insulation EXPERT FSK Tape is specifically engineered and designed for general purpose seaming, patching and sealing to enhance appearance while maintaining moisture and vapor barrier integrity for Foil Scrim Kraft (FSK) jacketed insulation products. The 8 mil, FSK excels in demanding temperature and humidity applications and provides superior performance and durability over a wide range of environmental conditions.

Features

- Tri-directional 8 mil FSK facestock reinforces and seals
- Specially formulated for extreme climates.
- High-strength reinforced facestock
- Made in the USA
- Foil laminate facing (FSK) is decaBDE free
- Application temperature as low as 20°F

Benefits

- Strong bond to a variety of substrates

- Excellent adhesion and quick stick properties
- Meets ASTM C-1136 Type II and Type IV
- PSA complies with South Coast Air Quality Management District's (SCAQMD) Rule 1168

Construction

Adhesive: Acrylic
Carrier: Foil Laminate
Liner: 60# Densified Kraft
Width: 3 in. and 4 in.
Length: 150 feet

| Physical Properties | 2 Mil Foil Tape Typical Values | | ASJ Tape Typical Values | | ASJ+ Tape Typical Values | | FSK Tape Typical Values | | | | | |
|--|--------------------------------|------------|-------------------------|----------|--------------------------|-----------|-------------------------|------------|-----------|------------|------------|-----------|
| Thickness | US Mils | Metric | US Mils | Metric | US Mils | Metric | US Mils | Metric | | | | |
| Carrier | 2.0 | 0.05 | 9.0 | 0.23 | 8.0 | 0.23 | 8.0 | 0.20 | | | | |
| Adhesive | 1.7 | 0.04 | 1.7 | 0.04 | 1.7 | 0.04 | 1.7 | 0.04 | | | | |
| Liner | 3.6 | 0.09 | 3.6 | 0.09 | 3.6 | 0.09 | 3.6 | 0.09 | | | | |
| Total | 7.3 | 0.19 | 14.3 | 0.36 | 13.3 | 0.34 | 13.3 | 0.34 | | | | |
| *PSTC-133 | | | | | | | | | | | | |
| Peel Adhesion Product 180° 12" / min Initial @ 72°F / 22°C (*PSTC-101, ASTM D-3330, STD-10) | | | | | | | | | | | | |
| Substrate | Lbf / in | US Oz / in | N / Meter | Lbf / in | US Oz / in | N / Meter | Lbf / in | US Oz / in | N / Meter | Lbf / in | US Oz / in | N / Meter |
| SS | 4.0 | 64 | 700 | >4.8 | 77 | 840 | >4.8 | 77 | 840 | 6.5 | 104 | 1138 |
| Loop Tack Product 20" / min Initial (*PSTC-16, STD-7) | | | | | | | | | | | | |
| Substrate | Lbf / in | US Oz / in | N / Meter | Lbf / in | US Oz / in | N / Meter | Lbf / in | US Oz / in | N / Meter | | | |
| SS | 6.0 | 96 | 1051 | >6.0 | 96 | 1051 | >6.0 | 96 | 1051 | Not tested | | |
| Tensile Elongation Product MD | | | | | | | | | | | | |
| Sample | | | | Lbf / in | % | Lbf / in | % | Lbf / in | % | | | |
| SS | Not tested | | | <15 | >1 | 55 | >1 | 40 | >1 | | | |
| Tensile Elongation Product CD | | | | | | | | | | | | |
| Sample | | | | Lbf / in | % | Lbf / in | % | Lbf / in | % | | | |
| SS | Not tested | | | 50 | >1 | 50 | >1 | <25 | <1 | | | |
| TLMI Release Product 90° 300" / min Initial (*PSTC-4, STD-8) | | | | | | | | | | | | |
| Substrate | Gf / 2 in w | | Gf / 2 in w | | Gf / 2 in w | | Gf / 2 in w | | | | | |
| Product | 30.0 | | 50.0 | | 50.0 | | 40.0 | | | | | |
| Static Shear Product @ 72°F / 22°C 1" sq (6.5 cm2) 2500 g (*PSTC-107, ASTM D 3654, STD-9) | | | | | | | | | | | | |
| Substrate | Min to Fail | | Min to Fail | | Min to Fail | | Min to Fail | | | | | |
| SS | >1,000 | | Not tested | | Not tested | | >10,000 | | | | | |
| VOC Content (*SCAQMD Rule 1168) | | | | | | | | | | | | |
| Substrate | g / L | | g / L | | g / L | | g / L | | | | | |
| Product | <15 | | <15 | | <15 | | <15 | | | | | |
| Temperature | | | | | | | | | | | | |
| Min Application Temp | | | | 0°F | -18°C | | | | | | | |
| Max Continuous Operating Temp | | | | 200°F | 93°C | | | | | | | |
| Max Intermittent Operating Temp | | | | 250°F | 121°C | | | | | | | |

*Test methods

Note: The listed values are typical only and not intended to serve as product specifications
 Tapes available in 3 in. and 4 in. widths

For more information call (800) 825-4434, ext. 8283

or visit us online at www.knaufinsulation.us