








	K-FLEX® INSUL-TUBE®	K-FLEX® INSUL-SHEET®	K-FLEX INSUL-LOCK DS	K-FLEX HT	K-FLEX ECO®	K-FIT®	K-FLEX CLAD®	K-FLEX TITAN - UV RESISTANT	K-FLEX DUCT® LINER GRAY	K-FONIK® GK / GV	K-FLEX® PE	K-FLEX® ACCESSORIES
DESCRIPTION ▶	 Closed cell flexible elastomeric foam insulation tubes designed for use on HVAC/R commercial and Industrial process piping and equipment. The product offers a high resistance to moisture vapor intrusion and a low thermal conductivity. For most indoor applications, no additional jacketing is required.	 Closed cell flexible elastomeric foam insulation sheets / rolls designed for use on HVAC/R and Industrial Process ductwork, vessels, equipment and large ID piping (>8" IPS). The product offers a high resistance to moisture vapor intrusion and a low thermal conductivity. For most indoor applications, no additional jacketing is required.	 Flexible closed-cell elastomeric insulation tube used to conserve energy and prevent condensation on piping applications. It is pre-slit with a factory-applied pressure sensitive modified-acrylic adhesive on the seam surface and a flexible PVC overlap tape with acrylic adhesive for double seam security.	 EPDM-based closed-cell elastomeric insulation product used to conserve energy and prevent condensation on piping, vessels and industrial equipment. For applications up to 300°F.	 Halogen-free, closed cell flexible elastomeric foam insulation tubes and sheets / rolls designed for use on marine, commercial and industrial piping, tanks, vessels and equipment. The product offers a high resistance to moisture vapor intrusion and a low thermal conductivity. As a halogen-free material, it is ideal for use on stainless steel applications or where corrosive smoke and environmental issues (toxicity) are critical.	 Closed cell flexible elastomeric foam insulation in factory-made elbows and tees designed for use on HVAC/R pipe bends, intersections and curvatures. Fittings are produced in a controlled manufacturing environment using an automated process to ensure uniformity, compression fit and water-tight seams.	 K-FLEX CLAD® AL A multi-ply laminate jacketing consisting of a PVC backing and aluminum foil that protects insulation from UV rays, mechanical abuse, moisture and chemicals. K-FLEX CLAD® WT A multi-ply laminate jacketing consisting of a PVC backing and aluminum foil coated with a white protective polyester film that protects insulation against damage from UV rays, mechanical abuse, moisture and chemicals. *Include NSF seal" K-FLEX® CLAD IN A patent pending, flexible, non-metallic, polymeric (CPE/PVC) barrier that provides superior protection against the most extreme environmental conditions. Available in gray. Jacketing is available in roll form for use on all insulation types or factory-adhered to K-FLEX elastomeric tubes, sheets and rolls.	 Patent Pending Closed-cell elastomeric insulation (NBR/PVC) tube that is factory-adhered to a flexible polymeric jacketing material. The jacket offers excellent UV protection, flexibility, abrasion and weather resistance, making it ideal for outdoor applications. 1-Step Install: No field applied protective coating or additional jacketing required	 Closed cell flexible elastomeric foam insulation sheets / rolls designed for use as an acoustical / thermal insulation liner in commercial and industrial HVAC ducts. The product offers excellent sound absorption, high resistance to moisture vapor intrusion, low thermal conductivity and does not require additional facing.	 Flexible, non-reinforced, resilient mass-loaded elastomeric noise barriers. K-FONIK® GK is for general purpose applications and K-FONIK® GV is halogen-free for use on stainless steel, IMO-recognized marine applications and mass transit / transportation applications. K-FONIK GK/GV may be laminated to other K-FLEX insulation products and/or weathering jackets for specific application requirements.	 K-FLEX® PE is a polyethylene-based closed cell, flexible foam insulation meeting the requirements of ASTM C1427. The product is designed for use on plumbing lines.	 Varies by product
AVAILABILITY ▶	▶ Non-slit for slide-on applications ▶ Thickness: 3/8" to 2" ▶ ID: 3/8" to 8" IPS ▶ Length: 6' or continuous coils ▶ Color: Black <i>Technical Data referenced in this document pertains to K-FLEX® black elastomeric insulation.</i>	▶ S2S (skin-two-side) or Factory-applied PSA (adhesive) ▶ Thickness: 1/8" to 2" ▶ Sheets: 3' x 4' ▶ Rolls: 4' width ▶ Color: Black	▶ Thickness: 1/2" to 2" ▶ ID: 3/8" to 4" IPS standard, 8" IPS special order ▶ Length: 6' ▶ Color: Black	Tubes ▶ Thickness: 1/2" to 1" ▶ ID: 3/8" to 5" IPS standard, 6" IPS special order ▶ Length: 6' Rolls ▶ Thickness: 1/2" to 1" ▶ Width: 4' ▶ Color: Black	Tubes ▶ Non-slit ▶ Thickness: 1/2", 3/4", 1" ▶ ID: 3/8" to 8" IPS ▶ Length: 6' Sheet/Roll ▶ S2S (skin-two-side) or Factory-applied PSA (adhesive) ▶ Thickness: 1/2", 3/4", 1" ▶ Sheets: 3' x 4' ▶ Rolls: 4' width ▶ Color: Green <i>Technical Data referenced in this document pertains to K-FIT® fittings made from K-FLEX® NBR/PVC-based black elastomeric insulation.</i>	▶ Type: 90° long radius elbows and tees ▶ Thickness: 1/2" to 2" ▶ ID: 3/8" to 6" IPS ▶ Color: Black <i>Technical Data referenced in this document pertains to K-FIT® fittings made from K-FLEX® NBR/PVC-based black elastomeric insulation.</i>	Jacketing Thickness: ▶ 0.012" (AL and WT) ▶ 0.045" (IN) ▶ Size: 48" (AL and WT) or 39" (IN) width x 75' length ▶ Color: Aluminum (AL), White (WT), Gray (IN) ▶ Jacket Factory-applied to Elastomeric Tube (Pre-Slit) ▶ Thickness: 1" to 2" ▶ ID: 1/2" to 8" IPS varies by wall thickness. Some sizes special order. ▶ Length: 3' Jacket Factory-applied to Elastomeric Sheet / Roll ▶ S2S (skin-two-side) or ▶ Factory-applied PSA (adhesive) ▶ Thickness: 1/2" to 2" ▶ Sheets: 3' x 4'; Rolls: 4' width	▶ Non-slit for slide on applications or pre-slit for retrofits. ▶ Thickness: 1/2" to 1-1/2" ▶ ID: 1/4" to 2-1/8" ID ▶ Length: 6' or small coil ▶ Color: Black	▶ S2S (skin-two-side) or Factory-applied PSA (adhesive) ▶ Thickness: 1/2" to 2" ▶ Sheets: 3' x 4' ▶ Rolls: 48", 56.25", 59", and 60" widths ▶ Color: Gray	K-FONIK® GK ▶ Mass (lb/ft³): 0.5, 1.0, 1.5 ▶ Roll Width: 48" ▶ Color: Black K-FONIK® GV ▶ Mass (lb/ft³): 0.75, 1.5 standard. 1.0 special order ▶ Roll Width: 48" ▶ Color: Beige	▶ Semi-slit and self-seal (pre-glued) ▶ Thickness: 3/8" up to 1" ▶ ID: 3/8" up to 4-1/2" ▶ Length: 6ft ▶ Color: Black	K-FLEX® Elastomeric Foam Tape ▶ Thickness: 1/8"; Width: 2"; Length: 30' K-FLEX CLAD® AL/WT Joint Sealing Tape ▶ Width: 2" or 4"; Length: 100' K-FLEX® Contact Adhesives (320, 373, 420, 620, 720) ▶ 320 (amber) & 620 (black): 1/2 Pints, Pints, Quarts, Gallons ▶ 373: Pints, Quarts, Gallons ▶ 420 & 720: Quarts K-FLEX® 374 Protective Coating ▶ Gallons K-FLEX® Insulated Pipe Supports ▶ Thickness: 1/2" to 2" standard ▶ ID: 3/8" to 6" IPS standard K-FLEX® Aluminum Foil Tape ▶ Width: 3" or 4"; Length: 50 yd K-FLEX® FSK Tape ▶ Width: 3" or 4"; Length: 50 yd
PERFORMANCE CHARACTERISTICS ▶	Temperature Range*: -297°F to +220°F Thermal Conductivity (k-value, ASTM C177): 0.242 Btu-in/(h-ft²-°F) @ 75°F mean Water Vapor Permeability (ASTM E96): <0.01 perm-in <i>* For applications below -40°F, please consult K-FLEX technical support.</i>	Temperature Range*: -297°F to +220°F -40°F to +200°F (with PSA) Thermal Conductivity (k-value, ASTM C177): 0.242 Btu-in/(h-ft²-°F) @ 75°F mean R-Value: 1" = 4.2, 2" = 8.3 Water Vapor Permeability (ASTM E96): <0.01 perm-in <i>* For applications below -40°F, please consult K-FLEX technical support.</i>	Temperature Range*: -40°F to +220°F (self-seal) Thermal Conductivity (k-value, ASTM C177): 0.242 Btu-in/(h-ft²-°F) @ 75°F mean Water Vapor Permeability (ASTM E96): <0.01 perm-in <i>* For applications below -40°F, please consult K-FLEX technical support.</i>	Temperature Range: -297°F to 300°F Thermal Conductivity (k-value, ASTM C177): 0.263 Btu-in/(h-ft²-°F) Water Vapor Permeability: 0.1 perm-in	Temperature Range*: -297°F to +250°F Thermal Conductivity (k-value, ASTM C177): 0.27 Btu-in/(h-ft²-°F) Water Vapor Permeability (ASTM E96): <0.10 perm-in <i>* For applications below -40°F, please consult K-FLEX technical support.</i>	Temperature Range*: -297°F to +220°F Thermal Conductivity (k-value, ASTM C177): 0.242 Btu-in/(h-ft² @ 75°F mean Water Vapor Permeability (ASTM E96): <0.01 perm-in <i>* For applications below -40°F, please consult K-FLEX technical support.</i>	Temperature Range*: Service temperature matches insulation used High surface temperature: +175°F (IN only) Cold temperature flexibility (installation): -4°F (IN only) Thermal Conductivity (k-value, ASTM C177): See specific insulation. Water Vapor Permeability (ASTM E96): 0.001 perms (AL and WT) 0.08 perms (IN) Emissivity: 0.80 (AL and WT) 0.90 (IN) <i>* For applications below -40°F, please consult K-FLEX technical support.</i>	Temperature Range*: -70F° to 220F° Thermal Conductivity (k-value, ASTM C177): 0.230 Water Vapor Permeability (ASTM E96): <0.01 perm-in UV test (ASTM G153) <i>* For applications below -40°F, please consult K-FLEX technical support.</i>	NRC (ASTM C423): 0.55 (1") Temperature Range*: -297°F to +220°F Sound Transmission Loss (ASTM E90): 21 dB: 0.5 lb/ft² (GK only) 25 dB: 0.75 lb/ft² (GV only) 26 dB: 1.0 lb/ft² 29 dB: 1.5 lb/ft² R-Value: 1" = 4.2, 1-1/2" = 6, 2" = 8 Water Vapor Permeability (ASTM E96): <0.06 perm-in <i>* For applications below -40°F, please consult K-FLEX technical support.</i>	Temperature Range: -40°F to +158°F Thermal Conductivity (k-value, ASTM C177): 0.270 Btu-in/(h-ft²-°F) @ 75°F mean Water Vapor Permeability (ASTM E96): <0.05 perm-in <i>*For applications below -40°F, please consult K-Flex technical support.</i>	Temperature Range*: -200°F to +200°F Thermal Conductivity (k-value, ASTM C177): 0.270 Btu-in/(h-ft²-°F) @ 75°F mean Water Vapor Permeability (ASTM E96): <0.05 perm-in <i>*For applications below -40°F, please consult K-Flex technical support.</i>	K-FLEX® Elastomeric Foam Tape Temperature Range: -40°F to +200°F K-FLEX CLAD® Joint Sealing Tape Water Vapor Permeance (ASTM E96): 0.001 perms K-FLEX® Contact Adhesives (320, 373, 420, 620, 720) 320 & 620: Quick drying (2-4 minutes) 373: Slow drying (5-10 minutes minimum) 420: High heat resistance 720: VOC = 0 g/L; halogen-free K-FLEX® 374 Protective Coating Resists UV for 2-3 years K-FLEX® Insulated Pipe Supports Compressive Strength: 72 psi K-FLEX® Aluminum Foil Tape Temperature Range: -31°F to 248°F K-FLEX® FSK Tape Temperature Range: -31°F to 176°F
SPECIFICATION COMPLIANCE ▶	▶ ASTM C534 (Type 1, Grade 1) ▶ ASTM E84 (25/50-rated to 2") ▶ UL 94-5V (#300774) ▶ Mil-P-15280, Form T (non-slit tube) ▶ Factory Mutual Approved ▶ Meets energy code requirements of ASHRAE 90.1 and 189.1 ▶ UL GREENGUARD® Gold Certified ▶ UL validated mold resistance	▶ ASTM C534 (Type 2, Grade 1) ▶ ASTM E84 (25/50-rated to 2") ▶ UL 94-5V (#300774) ▶ Mil-P-15280, Form S (S2S sheet) ▶ Meets energy code requirements of ASHRAE 90.1 and 189.1 ▶ UL GREENGUARD® Gold Certified ▶ UL validated mold resistance	▶ ASTM C534 (Type 1, Grade 1) ▶ ASTM E84 (25/50-rated to 2") ▶ UL 94-5V (#300774) ▶ Mil-P-15280, Form T (non-slit tube) ▶ Factory Mutual Approved ▶ Meets energy code requirements of ASHRAE 90.1 and 189.1 ▶ UL GREENGUARD® Gold Certified ▶ UL validated mold resistance	▶ ASTM C534 Type 1 and 2, Grade 2 ▶ ASTM E84 (25/50-rated to 1") ▶ NFPA No. 101 Class A Rating ▶ NFPA 90A, 90B	▶ ASTM C534 (Type 1 or 2, Grade 3) ▶ ASTM E84 (25/50-rated to 3/4") ▶ UL 94-5V (#362979) ▶ EB 4013 (US Navy) ▶ IMO SOLAS ▶ Lloyd's Register ▶ ABS ▶ Transport Canada Board of Steamship Inspection	▶ ASTM C534 (Type 1, Grade 1) ▶ ASTM E84 (25/50-rated to 2") ▶ Meets energy code requirements of ASHRAE 90.1 and 189.1 ▶ UL GREENGUARD® Gold Certified (NBR/PVC) ▶ UL validated mold resistance (NBR/PVC)	▶ ASTM C534 Class A (25/450-rated) (AL and IN) ▶ ASTM E84 (25/50-rated) (WT only) ▶ Meets requirements of ASTM C1136 Grade VIII (WT only) ▶ ABS (IN only) ▶ Det Norske Veritas (DNV) (IN only) ▶ Lloyd's Register (IN only) ▶ Norsok Standard R-004 ed 3 (par. 5.9 non-metallic jacket) (IN only) Jacket Factory-applied to Elastomeric Tubes, Sheets or Rolls ▶ ASTM C534, Type 1 or 2, Grade 1 ▶ UL GREENGUARD® Gold Certified (WT only) ▶ NSF/ANSI Standard 169 (tubing only) (WT only) ▶ IMO 61/67 part 2 & 5 (IN only)	▶ ASTM E84 Class A: 25/50 ▶ IECC 2012/2015/2018 Compliant	▶ ASTM C1534 (Grade 1) ▶ ASTM C534 (Type 2, Grade 1) ▶ ASTM E84 (25/50-rated to 2") ▶ Meets energy code requirements ▶ UL GREENGUARD® Gold Certified ▶ UL validated mold resistance	K-FONIK® GK/GV ▶ ASTM E84 (25/50-rated) - without FSK ▶ FMVSS 302 K-FONIK® GV only ▶ ASTM E162: 25 max ▶ ASTM E662: 100 max ▶ IMO A653 (CE Marine) ▶ IMO FTP Code Part 5 K-FONIK® GK only ▶ UL 94-HB (#300774)	▶ ASTM C1427 Type I ▶ ASTM E84 25/50-rated (to 1") ▶ UL 94 HF-1 Flammability Classification (#E300774) ▶ UL Greenguard® Gold Certified	K-FLEX® Elastomeric Foam Tape ▶ ASTM E84 (25/50-rated) K-FLEX CLAD® Joint Sealing Tape ▶ ASTM E84 (WT, 25/50-rated; AL: 25/450-rated) K-FLEX® Contact Adhesives ▶ 320, 620, 720: ASTM E84 (25/50-rated) ▶ 373: Mil-A-24179A Type 2, Class 1 ▶ 720: EPA 40 CFR-59 sub part 1, SCAQMD Rule 1168 & LEED K-FLEX® 374 Protective Coating ▶ ASTM E84 (25/50-rated)



Thermal Conductivity



Acoustical



Condensation Control



Outdoor Protection



Halogen-Free



PROJECT REFERENCES

K-FLEX products have delivered lasting performance on jobs in North America and throughout the world. This is true for applications using standard tubing and sheet to those featuring factory-applied jacketing and duct lining products.

Chilled Water:

- ▶ California Street Thermal Plant, Omaha, NE
- ▶ IVY Tech Community College, Indianapolis, IN

Ammonia:

- ▶ Seneca Foods Plant, Rochester, MN

Duct Liner:

- ▶ Bellefonte High School, Bellefonte, PA
- ▶ City of Doral Courthouse, Doral, FL
- ▶ George Mason University, Fairfax, VA
- ▶ Kelowna General Hospital, BC, Canada
- ▶ Massachusetts DOT, Boston, MA

Duct Cover:

- ▶ Centura Avista Adventist Hospital, Louisville, CO
- ▶ American Snuff Company Factory, Memphis, TN
- ▶ Dallas-Fort Worth International Airport, TX
- ▶ Seagate Towers Condos, Delray Beach, FL

Refrigeration:

- ▶ Target Corp. stores, nationwide
- ▶ Wal-Mart stores, nationwide
- ▶ Brookshire Grocery stores, TX & LA

Solar Thermal:

- ▶ Duke University Smart House, Durham, NC

Oil & Gas:

- ▶ Dakota Gas Co., Gasification Tanks, North Dakota
- ▶ Oil Shipment Terminal, Newfoundland, Canada
- ▶ Lukoil, Oil Storage Tanks, Russia
- ▶ Cryostar, LNG Refueling Stations & Carriers
- ▶ Gas de France, LNG Loading Facility, France
- ▶ Shell, LNG Tanker Vessels, Korea
- ▶ SIAD Group, Nitrogen-Oxygen Plant, Italy
- ▶ Sonatrach, Arzew LNG Terminal, Algeria

Global Projects:

- ▶ Monza Racing Track, Italy
- ▶ Volkswagen, Germany
- ▶ Disneyland, Paris
- ▶ Emirates Tower, Dubai
- ▶ IBM, Segrate, Italy
- ▶ Euro 2012, 3 Stadiums, Poland
- ▶ 2014 FIFA World Cup, 5 Stadiums, Brazil
- ▶ SAP Offices, Italy (K-FONIK® GK)



California Street Thermal Plant
Omaha, NE



Bellefonte High School
Bellefonte, PA



American Snuff Company
Factory
Memphis, TN



Renaissance
on Charleston Harbor Condos
Charleston, SC

K-FLEX USA BENEFITS

- ▶ Full system solutions for Thermal, Acoustic, and Jacketing requirements
- ▶ Manufacturing, warehousing & logistics structure to meet project timelines
- ▶ Accessible & responsive sales, customer service and technical teams
- ▶ Product & installation training/site assistance

GLOBAL PRESENCE

L'ISOLANTE K-FLEX:

- ▶ 14 Production Facilities
- ▶ Worldwide Commercial Distribution
- ▶ Headquartered in Italy



ABOUT K-FLEX USA

K-FLEX USA IS A LEADING MANUFACTURER

of closed cell flexible elastomeric foam insulation products for mechanical piping, ductwork and vessels.

Designed for ease of installation and reliable performance, K-FLEX products provide excellent thermal and acoustical performance, including inherent resistance to moisture intrusion.

K-FLEX USA prides itself on being responsive to the market, providing dependable service to customers throughout North America, bringing an innovative approach to product offerings, and having products that are 3rd party tested and certified.

In April 2012, K-FLEX USA was awarded with ISO 9001:2008 certification by FM Approvals. The independent certification demonstrates the company's commitment to quality.

K-FLEX products have proven performance in the Plumbing, HVAC/R, Commercial/Industrial, Marine, Oil & Gas, Acoustic and OEM Markets.

As a member of the IK Insulation Group, K-FLEX USA delivers state-of-the-art levels of technical knowledge and customer support to the global mechanical insulation market.



SEPTEMBER 2020

PRODUCT SELECTOR GUIDE
CLOSED-CELL, FLEXIBLE, ELASTOMERIC FOAM
INSULATION PRODUCTS AND ACCESSORIES

1965 Rubatex was formed.

1975 Halstead was formed and INSUL-TUBE® became a well-known product brand.

1989 L'ISOLANTE K-FLEX was formed.

1999 Rubatex acquired Halstead to form RBX Industries.

2001 Nomaco Insulation and L'ISOLANTE K-FLEX joined to form Nomaco K-FLEX® (NKF).

2004 NKF acquired RBX's mechanical insulation business.

2008 L'ISOLANTE K-FLEX and Nomaco split. K-FLEX USA was formed.

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