



Performance+

KN Series

with ECOSE® Technology

Product-Data-Sheet

Description

Performance+® KN Series products are flexible to semi-rigid blankets made from inorganic glass fibers bonded with ECOSE Technology.

Application

- Thermal and/or acoustical insulation in the appliance, equipment, industrial, commercial, transportation and marine markets up to 650° F (343° C)

Specification Compliance

- ASTM C553; Type I, Type II
- MIL-DTL-32585; Type 1, Form 2, Facing A
- UL/ULC Classified

Packaging

- Placed in a poly bag and then stretch wrapped into units of 4 or 6 rolls.



Indoor Air Quality

- Asthma & Allergy Friendly® Certified
- Verified Healthier Air™
- UL Environment
 - GREENGUARD Certified
 - GREENGUARD Gold Certified
 - Validated to be Formaldehyde-Free
- EUCB Certified

Certifications



The Asthma & Allergy Friendly® Certification Mark is a Registered Certification Mark of the Asthma Allergy Foundation of America (AAFA) and Allergy Standards Ltd (ASL). Verified Healthier Air™ is a trademark of Airmid Healthgroup. USGBC® and the related logo are trademarks owned by the U.S. Green Building Council® and are used with permission.

Contractor: _____

Job: _____

Date: _____

Technical Data

Property (Unit)	Test	Performance
Corrosiveness	ASTM C665	Does not accelerate corrosion of steel
Corrosion	ASTM C1617	Pass
Odor Emission	ASTM C1304	Pass
Water Vapor Sorption (by weight)	ASTM C1104	Less than 3%
Maximum Service Temperature	ASTM C411	650° F (343° C)
Mold Growth	ASTM C1338	Pass
Surface Burning Characteristics (flame spread/smoke developed)	ASTM E84, UL 723	UL Classified FHC 25/50

Forms Available

Type	Thickness	Width	Length	Layer	Current Minimum (ft³)
KN-75	1½" (38 mm)	16" – 48" (406 – 1,219 mm) 60" – 96" (1,829 – 2,438 mm)	80' (24.38 m)	Double	134,000
	2" (51 mm)		115' (35.08 m)	Single	92,000
	2½" (64 mm)		95' (28.96 m)	Single	80,000
	3" (76 mm)		75' (22.86 m)	Single	68,000
	4" (102 mm)		40' (12.19 m)	Single	50,000
	5" (127 mm)		40' (12.19 m)	Single	41,000
	6" (152 mm)		35' (10.67 m)	Single	34,000
KN-100	1" (25 mm)		95' (28.96 m)	Double	150,000
	1½" (38 mm)		125' (38.10 m)	Single	100,000
	2" (51 mm)		95' (28.96 m)	Single	75,000
	2½" (64 mm)		75' (22.86 m)	Single	60,000
	3" (76 mm)		60' (18.29 m)	Single	50,000
	4" (102 mm)		45' (13.72 m)	Single	39,000
	5" (127 mm)		35' (10.67 m)	Single	31,000
	6" (152 mm)		30' (9.14 m)	Single	25,000
KN-150	1" (25 mm)		125' (38.10 m)	Single	100,000
	1½" (38 mm)		85' (25.91 m)	Single	68,000
	2" (51 mm)		60' (18.29 m)	Single	50,000
KN-200	1" (25 mm)		95' (28.96 m)	Single	75,000
	1½" (38 mm)		60' (18.29 m)	Single	50,000
	2" (51 mm)		45' (13.72 m)	Single	39,000
KN-250	1" (25 mm)		75' (22.86 m)	Single	60,000
	1½" (38 mm)		50' (15.24 m)	Single	42,000

KN Series Insulation is made-to-order and is available in rolls. For requirements not listed, contact your Knauf Insulation Territory Manager.

Sound Absorption Coefficients | ASTM C423, Type A Mounting

Density	Thickness	Octave Band Center Frequency (cycles/sec.)						
		125	250	500	1000	2000	4000	NRC
0.75 PCF (12 kg/m ³)	1½" (38 mm)	0.20	0.42	0.82	0.87	0.94	0.91	0.75
1.0 PCF (16 kg/m ³)	1" (25 mm)	0.17	0.24	0.62	0.79	0.88	0.96	0.65
	1½" (38 mm)	0.31	0.50	0.89	0.98	1.01	1.01	0.85
1.5 PCF (24 kg/m ³)	1" (25 mm)	0.03	0.28	0.56	0.82	0.90	0.94	0.65
	1½" (38 mm)	0.21	0.51	0.97	1.08	1.07	1.06	0.90
	2" (51 mm)	0.38	0.89	1.08	1.14	1.11	1.08	1.05
2.0 PCF (32 kg/m ³)	1" (25 mm)	0.06	0.29	0.67	0.86	0.94	0.95	0.70
	1½" (38 mm)	0.26	0.57	0.97	1.06	1.06	1.04	0.90
	2" (51 mm)	0.22	0.78	1.19	1.08	1.11	1.06	1.05

Thermal Conductivity | ASTM C518 @ 75° F Mean Temperature

Density	k
0.75 PCF (12 kg/m ³)	0.30
1.0 PCF (16 kg/m ³)	0.26
1.50 PCF (24 kg/m ³)	0.24
2.0 PCF (32 kg/m ³)	0.23
2.50 PCF (40 kg/m ³)	0.22

FIBERGLASS AND MOLD

Fiberglass insulation will not sustain mold growth. However, mold can grow on almost any material when it becomes wet and contaminated. Carefully inspect any insulation that has been exposed to water. If it shows any sign of mold it must be discarded. If the material is wet but shows no evidence of mold, it should be dried rapidly and thoroughly. Insulation used in direct contact with air streams that provide conditioning to occupied spaces must be discarded if exposed to water.

Check with your Knauf Insulation Territory Manager to ensure information is current.

The chemical and physical properties of this product represent average values determined in accordance with accepted test methods. The data is subject to normal manufacturing variations. The data is supplied as a technical service and is subject to change without notice. References to numerical flame spread ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

Consult with or follow local building and energy codes to determine appropriate R-values and need for and placement of a vapor retarder.

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Technical Support

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This product is covered by one or more U.S. and/or other patents.

See patent www.knaufnorthamerica.com/patents

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