



WEST COAST INSULATION WEST COAST WATERJET

September 2020

Subject: Thermal Insulation

Specification: MIL-DTL-32585, TY 1, FO 2, FA A

Dimensions: 2" x 24" x 36", 1.5 PCF, Unfaced 10 Sheets per box

Price: \$112.00 per box, 60sqft per box

Note: Also available in rolls: 2" x 36" x 60FT (180sqft), unfaced, Price: \$330.00 per roll

West Coast Insulation, Inc has a large stock level of Knauf Insulation KN series thermal blanket (KN-150) in both roll form and prepackaged boxes, 10 sheets per box. This material meets specification for thermal insulation board for many USCG and USN vessels. Material is stored in Seattle, Washington and we are able to ship or deliver locally (Greater Seattle Area). Please see manufacturers data below:

KN Series with ECOSE® Technology

DESCRIPTION

Knauf Insulation Type KN Series are flexible to semi-rigid blankets of glass fibers bonded with ECOSE Technology. KN Series products are used as thermal and/or acoustical insulation in the appliance, equipment, industrial, commercial and marine markets up to 650° F (343° C).

ECOSE® TECHNOLOGY

ECOSE Technology is a revolutionary binder chemistry that enhances the sustainability of our products. The "binder" is the bond that holds our glass mineral wool product together and gives the product its shape and brown color. ECOSE Technology is a plant-based, sustainable chemistry that replaces the phenol/formaldehyde (PF) binder traditionally used in glass mineral wool products. Products using ECOSE Technology are formaldehyde-free and have reduced global warming potential when compared to our products of the past.

SUSTAINABILITY

Knauf Insulation's products used for thermal insulating purposes recover the energy that it took to make them in just hours or days, depending on the application. Once installed, the product continues to save energy and reduce carbon generation as long as it is in place.

Glass mineral wool insulation with ECOSE Technology contains three key ingredients:

- Recycled glass content, verified every six months by UL Environment
- Sand, one of the world's most abundant resources
- Our green chemistry initiative ECOSE Technology, which is validated to be formaldehyde-free

PACKAGING

KN Series insulation is placed in a poly bag and then stretch wrapped into units of 4 or 6 rolls.

SPECIFICATION COMPLIANCE

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

INDOOR AIR QUALITY

- UL Environment
 - GREENGUARD certified
 - GREENGUARD Gold certified
 - Validated to be formaldehyde-free
- EUCEB

APPLICATIONS

Knauf Insulation KN Series products with ECOSE Technology are used as thermal and/or acoustical insulation in the appliance, equipment, industrial, commercial and marine markets up to 650° F (343° C).

GLASS MINERAL WOOL AND MOLD

Glass mineral wool 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.

NOTES

The chemical and physical properties of Knauf Insulation KN Series with ECOSE Technology represent typical average values determined in accordance with accepted test methods. The data is subject to normal 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 material under actual fire conditions.

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

Technical Data

Property (Unit)	Test	Performance
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

West Coast Insulation Inc. d/b/a West Coast Waterjet

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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.

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