



Data Sheet

BI-BWJS-DS

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JetSpray™ Thermal

JetSpray™ Thermal Spray-On Insulation System

DESCRIPTION

JetSpray Thermal Insulation is a high performance spray-on insulation system designed for professionals looking to provide premium performance insulation solutions. This insulation system provides ultimate comfort and efficiency for the homeowner while saving time and money for installers. Knauf Insulation's manufacturing process takes the guess work out by incorporating calculated amounts of a water-activated adhesive into the JetSpray fibers, allowing installers to focus on a hassle-free and efficient installation.

APPLICATION

JetSpray Thermal Insulation can be installed in residential, manufactured and light commercial buildings exterior and interior cavity walls for thermal and acoustical performance.

PRODUCTS FEATURES

Consistent Application

- No gaps or voids in cavities, easily installed around any wall obstructions (electrical wiring, pipes, security and sound system wiring)

Thermal Efficiency

- Delivers maximum performance with R-values of R-15 in a 2 x 4 cavity and R-23 in a 2 x 6 cavity

Stabilized Fibers

- A monolithic-like blanket is created when JetSpray Thermal Insulation is installed in the cavities, preventing settling

No Delays

- Typically drywall can be installed the next day, causing no impacts to the production schedule

Factory Trained

- Professional installers are field-trained by Knauf Insulation to ensure the highest levels of comfort and performance are achieved

Non-Combustible

- Meets or exceeds requirements of ASTM E84 and E136 for surface burning and combustion characteristics.

Acoustical Benefits

- Properly installed wood-framed wall assemblies can see upwards of 5 STC points in sound transmission reduction by incorporating JetSpray Thermal Insulation

Grade I Installation

- Grade I installation is quick and easy to achieve with the spray-on benefits associated JetSpray Thermal Insulation

Non-Corrosive

- In accordance with ASTM C665, JetSpray Thermal Insulation will not compromise the integrity of pipes and wiring located inside of the cavity.

INSTALLATION AND EQUIPMENT

Knauf Insulation's JetSpray Thermal Insulation should only be installed by factory-trained contractors. For more information on approved installers please contact your local Knauf Insulation Territory Manager.

The JetSpray system incorporates many standard blowing wool components in service with most insulation contractors such as:

- Blowing wool machine
- Water tank and pump
- Vacuum and portable generator
- Internally corrugated blowing wool and vacuum hoses
- Spray nozzle
- Wall scrubber

PACKAGING

JetSpray Thermal Insulation is packaged in 32 lb bags.

STORAGE

Materials should be stored under cover in a dry and clean location.

SPECIFICATION COMPLIANCE

- ASTM C1014
- ASTM C764, Type 1
- CCMC 13315-R

Acceptance and code requirements should be verified with local building officials.

WEATHER VARIABLES AND DRY TIMES

Standard installation methods for applying JetSpray Thermal Insulation should allow for drywall to be installed the next day. Recommendations are not to cover the insulation when the moisture content is above 15%.

Dry times are dependent on weather conditions, primarily temperature and humidity as well as cavity depth. Seasonal weather patterns will also affect dry times and time frames may need to be altered to allow for the cavities to reach a moisture content of 15% or less. For deeper cavities (2 x 6) dry times may take longer to reach the 15% mark due to the volume of material in the cavity. A proper moisture reading should be made prior to covering the cavity.

Regardless if you are applying drywall directly over the cavity or a vapor retarder and then drywall, the cavity should have a moisture content of 15% or less.

NOTES

The chemical and physical properties of Knauf Insulation JetSpray Thermal Insulation represents typical 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.

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

Sidewall Coverage Information

Framing	Cavity Depth	R-Value	Density (lbs/ft ³)	Bags/ 1,000 ft ²	Maximum Coverage/ Bag (ft ²)	Minimum Weight/ft ² (lbs/ft ²)
2 x 4	3.50"	R-15	1.9	17.3	57.7	0.554
2 x 6	5.50"	R-23	1.9	27.2	36.7	0.871
2 x 8	7.25"	R-31	1.9	35.9	27.9	1.148
2 x 10	9.25"	R-39	1.9	45.8	21.8	1.465
2 x 4	3.50"	R-14	1.5	13.7	73.1	0.438
2 x 6	5.50"	R-22	1.5	21.5	46.5	0.688
2 x 8	7.25"	R-29	1.5	28.3	35.3	0.906
2 x 10	9.25"	R-37	1.5	36.1	27.7	1.156

Bag Net Weight - Nominal 32 lb., Minimum 31 lb.

"R" means resistance to heat flow. The higher the R-value, the greater the insulating power. To get the marked R-value, it is essential that this insulation be installed properly. To achieve stated R-values, the insulation must be installed at stated minimal thicknesses and maximum coverages. Stated R-value will be reduced with the use of re-feed material. Field manufacturing variables such as density and installation techniques may affect stated R-values. Following recommended manufacturer's installation guidelines will minimize application variances. Field blending of this product with other loose fill insulations or application of this product in conjunction with adhesive or binder systems may affect its thermal performance and is not recommended by the manufacturer. To achieve stated R-values, this product must be applied with a pneumatic blowing machine equipped with a fluid delivery system, a collector box and a corrugated hose with a minimum ¼" internal corrugation and a minimum length of 150'. Additional equipment needed to finish wall sections would include a spray nozzle, wall scrubber, and a vacuum.

Technical Data

Property (Unit)	Test	Performance
Corrosiveness	ASTM C665	Will not compromise the integrity of pipes and wiring located inside of the cavity
Combustibility	ASTM E136	Non-combustible
Thermal Value	ASTM C518	Thermal resistivity (R-value) is determined using the industry standard test method
Mold Growth	ASTM C1338	Pass
Surface Burning Characteristics (flame spread/smoke developed)	ASTM E84	25/50



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UL Environment GREENGUARD Certification Program
JetSpray Thermal is certified to UL Environment GREENGUARD standards for low chemical emissions into indoor air during product usage.

UL Environment GREENGUARD Gold Certification Program
Knauf Insulation has achieved UL Environment GREENGUARD Gold Certification for JetSpray Thermal.

UL Environment Validated Formaldehyde-Free
Knauf Insulation has achieved UL Environment validation that JetSpray is formaldehyde-free.

UL Environmental Product Declarations
EPD Certification is documentation fully disclosing a product's environmental impact as well as other information regarding human toxicity, risk, and social responsibility.

For more information, visit ul.com/spot

LEED Eligible Product
Use of this product may help building projects meet green building standards as set by the Leadership in Energy and Environmental Design (LEED) Green Building Rating System.

LEED v2009
MR Credit 4.1 - 4.2 Recycled Content
MR Credit 5.1 - 5.2 Regional Materials

LEED v4
Knauf Insulation offers several products for both envelope and mechanical systems that have ingredient disclosure and transparency. Please contact transparency@knaufinsulation.com for products that currently contribute to MR credits.

This product has been tested and is certified to meet the EUCEB requirements.