

**DESCRIPTION**

Microlite® White PSK Formaldehyde-free™ duct wrap insulation is a lightweight, highly resilient, blanket-type thermal insulation. The insulation blanket is manufactured from rotary-process fiberglass bonded with a Formaldehyde-free™ resin.

**AVAILABLE FORMS**

Microlite White PSK Formaldehyde-free™ insulation is available in a variety of densities, thicknesses and roll lengths. It is supplied with a White PSK (polypropylene-scrim-kraft) vapor barrier facing to meet installed performance requirements, with a 2" (51 mm) stapling tab. Microlite PSK White comes 48" (1219 mm) wide.

**USES**

Microlite White PSK insulation is recommended as thermal insulation for the exterior of HVAC systems or other spaces or surfaces where temperature control is required. Great aesthetics and superior cleanability make White PSK an ideal choice for specifications.

**STORAGE**

Microlite White PSK Duct Wrap should be kept clean and dry during storage, transport, installation, and system operation.

**FACING INFORMATION**

White PSK Metalized Polypropylene  
Reinforced with fiberglass scrim laminated to UL-rated kraft.  
Permeance: 0.02 perms\*

*\*Per ASTM E96, Procedure A for facing material prior to lamination. After lamination, permeance values may be higher.*

**GENERAL PROPERTIES**

Temperature (max.) – ASTM C411	250°F (121°C)
Water vapor sorption – ASTM C1104	<5% by weight
Corrosivity with steel – ASTM C665	Does not accelerate
Fungi resistance – ASTM C1338	Does not breed or promote

**THICKNESSES AND PACKAGING**

Type	100' Roll	75' Roll	50' Roll
	(31 m)	(23 m)	(15 m)
	Thickness, in (mm)		
75	1½ (38)	2 ½ (56)	3 (76)
100	–	2 (51)	–

*Note: Additional thicknesses, widths and other lengths available on special order. Contact Regional Sales Office for availability.*

**RECYCLED CONTENT**



AVERAGE 24% RECYCLED CONTENT  
POST-CONSUMER



**SURFACE BURNING CHARACTERISTICS**

Microlite insulation meets the Surface Burning Characteristics and Limited Combustibility of the following standards:

Standard/Test Method

- ASTM E84
- UL 723
- NFPA 90A and 90B
- UL Guide No. 40 U8.3. Card R3711
- CAN/ULC S102

Maximum Flame Spread Index	25
Maximum Smoke Developed Index	50

*Note: Faced materials are tested as composite products (insulation, adhesive and facing).*

**SPECIFICATION COMPLIANCE**

ASTM C1290\* Type 75 & 100

*\*Facing provided free of print for aesthetic purposes.*

ASTM C553\*\*

Type I, Type II Type 75 & 100

*\*\*For faced material: 250°F (121°C) maximum temperature.*

ASTM C1136s†

Type II PSK Facing

*†Replaces HH-B-100B, Type II.*

Canada: CGSB 51-GP-11M

**SUSTAINABLE BUILDING CERTIFICATIONS**

GREENGUARD®	Certified
GREENGUARD® GOLD	Certified
FORMALDEHYDE FREE	Validated

GREENGUARD® Certified products have been screened for more than 10,000 volatile organic compounds (VOCs) and meet stringent standards for low chemical emissions based on established criteria from key public health agencies. This product is also a UL Validated Formaldehyde-Free product, meeting recommendations established by the California Air Resources Board and the EPA to use building materials and insulation made without formaldehyde.



**MICROLITE® WHITE PSK**

WHITE PSK-FACED FORMALDEHYDE-FREE™ FIBERGLASS DUCT WRAP

DATA SHEET

**APPLICATION RECOMMENDATIONS**

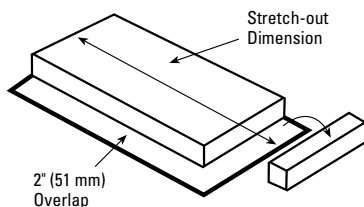
The R-value will vary depending upon how much the insulation is compressed during installation. To obtain the published installed R-values, the insulation stretch-out should be determined using the following table:

**DUCT WRAP STRETCH-OUTS**

Labeled Thick. (in)	Installed Compressed Thickness (in)	Stretch-out Dimension		
		Round	Square	Rectangular
1½	1.125	P+ 9.5"	P+ 8.0"	P+ 7.0"
2 ½	1.65	P+ 13.0"	P+ 11.0"	P+ 8.5"
3	2.25	P+ 17.0"	P+ 14.5"	P+ 11.5"
2 ½	1.65	P+ 13.0"	P+ 11.0"	P+ 8.5"
3	2.25	P+ 17.0"	P+ 14.5"	P+ 11.5"

Stretch-outs include 2" (51 mm) for overlap. P = perimeter of duct to be insulated.

Prepare overlap by removing approximately 2" (51 mm) of insulation from facing.



**THERMAL CONDUCTIVITY (ASTM C518)**

Type	k*		k	
	Btu•in/(hr•ft²•°F)	W/m•°C	Btu•in/(hr•ft²•°F)	W/m•°C
75	0.27	0.039	0.29	0.042
100	0.25	0.036	0.27	0.039

Conductivity at 75°F (24°C) mean temperature.  
\*Tested with material thickness compressed 25%.

**INSTALLATION**

Before applying duct wrap, sheet metal duct shall be clean, dry and tightly sealed at all joints and seams. Wrap insulation around duct with facing to the outside so the 2" (51 mm) flap completely overlaps facing and insulation at the other end of stretch-out. Insulation shall be snugly butted.

Secure seams with outward clinching staples placed approximately 6" (152mm) on center or tape tabs of 8" or longer. If required, seal seam with pressure-sensitive tape designed for use with duct insulation. For best results, Johns Manville recommends the use of (96mm) Johns Manville Microlite White PSK Duct Wrap Seaming Tape. Please refer to HVAC-475 for more information on tape. When adhering the tape, apply pressure by rubbing the tape firmly down with a plastic squeegee. Insulation on the underside of ducts spanning 24" (610 mm) or greater shall be secured with mechanical fasteners and speed clips spaced approximately 18" (457 mm) on center. Fasteners should be cut off flush after the speed clips are installed and sealed with the same tape as specified above.

Adjacent sections of duct wrap insulation shall be snugly butted with the circumferential 2" (51 mm) tape flap overlapping and secured as recommended for the longitudinal seam. When a vapor seal is required, the use of Johns Manville Microlite White PSK Duct Wrap Seaming Tape is preferred.

**GUIDE SPECIFICATIONS**

**Insulation for Metal Ducts.** All ducts shall be insulated on the outside with a Formaldehyde-free™, flexible glass fiber blanket. Microlite White PSK-faced Formaldehyde-free™ fiberglass duct wrap insulation should have a minimum installed R-value\* of \_\_\_\_\_, a Type \_\_\_\_\_ density and a white PSK facing. Tape shall be Johns Manville Microlite White PSK Duct Wrap Seaming Tape. Insulation shall be furnished with a factory-applied facing with a composite UL FHC rating of 25/50.

\*The minimum insulation installed R-value should be determined in accordance to the duct operating and ambient conditions.

**INSTALLED R-VALUES**

Type	Labeled Thickness		Installed "R"***		Out-of-Package "R"	
	in	mm	(hr•ft²•°F)/Btu	m²•°C/W	(hr•ft²•°F)/Btu	m²•°C/W
75	1½	38	4.2	0.74	5.2	0.92
	2 ½	56	6.0	1.08	7.5	1.33
	3	76	8.3	1.46	10.3	1.81
100	2	51	6.0	1.06	7.4	1.30

\*\*\*Installed R-value calculated with a material thickness compressed to a maximum of 25% following recommended duct wrap stretch-outs.



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**Eastern Region & Canada**  
P.O. Box 158  
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800-334-2399  
Fax: 419-784-7866

**Western Region & Outside North America**  
P.O. Box 5108  
Denver, CO 80217  
800-368-4431  
Fax: 303-978-4661

Technical specifications as shown in this literature are intended to be used as general guidelines only. Please refer to the Safety Data Sheet and product label prior to using this product. The physical and chemical properties of Microlite White PSK listed herein represent typical, average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions.

**All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions, which includes a Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions or for information on other Johns Manville thermal insulation and systems, visit [www.jm.com/terms-conditions](http://www.jm.com/terms-conditions) or call (800) 654-3103.**