

MICROLITE® STANDARD
FIBERGLASS UTILITY WRAP INSULATION
DATA SHEET

DESCRIPTION

Microlite Standard Utility Wrap is a lightweight, highly resilient, blanket-type thermal insulation made from flame-attenuated glass fibers bonded with a thermosetting phenolic resin.

AVAILABLE FORMS

Microlite Standard Utility Wrap insulation is available in a variety of densities, thicknesses, widths and roll lengths.

GENERAL PROPERTIES

Operating temperature (max.) – ASTM C411 350°F (177°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

THERMAL CONDUCTIVITY (K) (ASTM C518)

Type	Compressed Thickness*		Labeled Thickness	
	BTU•in/(Hr•ft ² •°F)	W/M•°C	BTU•in/(Hr•ft ² •°F)	W/M•°C
75	0.27	0.039	0.29	0.042
100	0.25	0.036	0.27	0.039
150	0.24	0.035	0.25	0.36
60	0.29	0.42	0.31	0.045

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



SURFACE BURNING CHARACTERISTICS

Microlite Standard Utility Wrap meets the Surface Burning Characteristics and Limited Combustibility of the following standards:

Standard/Test Method

- ASTM E84
- UL 723
- NFPA 255
- NFPA 90A and NFPA 90B
- UL Guide No. 40 U8.3. Card R3711
- CAN/ULC S102-1188

Maximum Flame Spread Index	25
Maximum Smoke Developed Index	50

UL labels supplied on packages when requested on order.

SPECIFICATION COMPLIANCE

ASTM C1290 Type I
 ASTM C553** Unfaced
 ** To 350°F (177°C)

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.

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UTILITY WRAP STRETCH-OUTS

Labeled Thickness		Installed Compressed Thickness		Stretch-out		
in	mm	in	mm	Round	Square	Rectangular
1	25	0.75	19	P + 7.0"	P + 6.0"	P + 5.0"
1½	38	1.125	29	P + 9.5"	P + 8.0"	P + 7.0"
2	51	1.50	38	P + 12.0"	P + 10.0"	P + 8.0"
2⅓	58	1.75	44	P + 13.0"	P + 11.0"	P + 8.5"
2½	64	1.875	48	P + 14.5"	P + 12.5"	P + 9.5"
3	76	2.25	57	P + 17.0"	P + 14.5"	P + 11.5"

*P = PERIMETER OF DUCT TO BE INSULATED.
 STRETCH-OUTS INCLUDE 2" (51 MM) FOR OVERLAP.*

Before applying utility wrap, sheet metal duct shall be clean, dry and tightly sealed at all joints and seams.

Unfaced Microlite Utility Wrap should be installed with a minimum 2" (51mm) overlap and secured with a wire or banding system

UNFACED FLAME-ATTENUATED UTILITY WRAP

Type	Thickness in	Width in	Length ft	R-values (hr•ft ² •°F)/Btu	
				Out of Package	Installed
60	1	36	150	3.3	2.7
	1	45	150	3.3	2.7
	1	72	150	3.3	2.7
	1½	48	100	5.0	4.0
	2	48	100	6.7	5.4
	3	48	50	10.0	8.0
75	1	48	100	3.6	2.9
	1½	48	100	5.3	4.3
	3	48	50	10.7	8.7

Note: Not all products are stock items. Minimum order quantities may apply. Please contact your JM representative for information.

GUIDE SPECIFICATIONS

Insulation for Metal Ducts. All ducts shall be insulated on the outside with flexible fiberglass blanket. Microlite Standard fiberglass utility wrap insulation Type _____, with a minimum installed R-value* of _____.

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



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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 Standard 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 or call (800)654-3103.