

DESCRIPTION

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

AVAILABLE FORMS

Microlite Standard Duct 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
60	0.29	0.42	0.31	0.045
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

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

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 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"
2⅔	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 duct wrap, the sheet metal duct shall be clean, dry and tightly sealed at all joints and seams.

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



SURFACE BURNING CHARACTERISTICS

Microlite Standard Duct 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) unfaced

UNFACED FLAME-ATTENUATED DUCT 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

GUIDE SPECIFICATIONS

Insulation for Metal Ducts. All ducts shall be insulated on the outside with flexible fiberglass blanket. Microlite® (R-Series Microlite®) fiberglass duct wrap insulation with a minimum installed R-value** of _____, and a Type[†] _____ facing.

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

MICROLITE® STANDARD
FIBERGLASS DUCT WRAP INSULATION
DATA SHEET



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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.

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