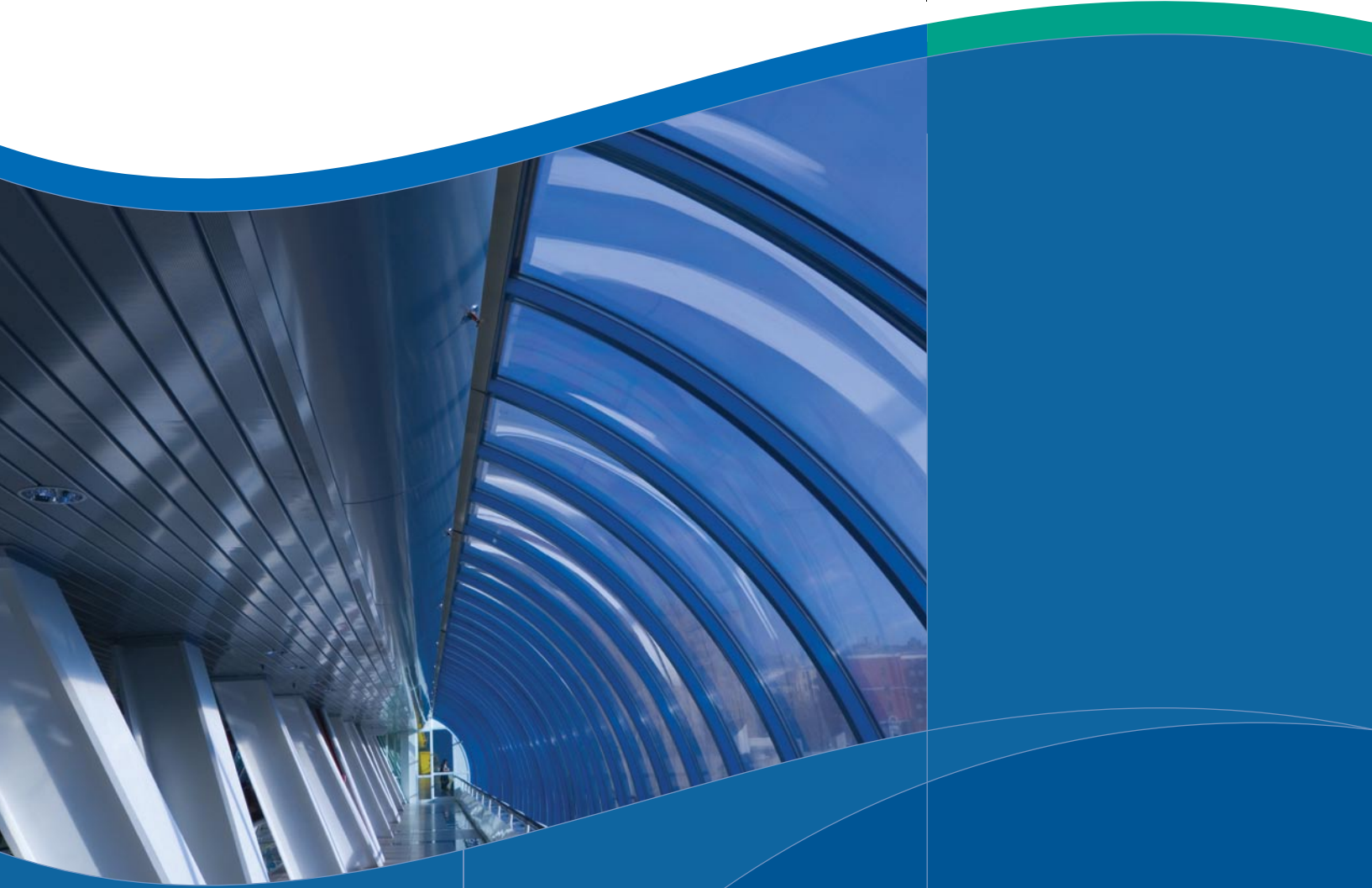




Fiber Glass Insulation



Pipe & Equipment Insulations
Product Selection Guide



800 Series Spin-Glas®
Fiber Glass Duct and Equipment Insulation



Spin-Glas®
Fiber Glass Board Insulation



HTB 26 Spin-Glas®
Fiber Glass Blanket Insulation



DESCRIPTION

This fiber glass insulation board is designed for use on equipment in commercial and industrial HVAC, power, and process applications.

Operating Temperature Limit:
0°F to 450°F (-18°C to +232°C)

1000 Series Spin-Glas®
A semi-rigid board used for insulating furnaces, boilers, heated vessels, ducts, tanks, and other systems operating at medium to high temperatures.

Operating Temperature Limit: 850°F (454°C)

Precipitator Spin-Glas®
A semi-rigid board specifically designed for insulating precipitators, ducts, and breechings in power generation plants.

Operating Temperature Limit: 850°F (454°C)

A lightweight insulating blanket specifically designed for insulating irregular surfaces.

Operating Temperature Limit: 1000°F (538°C)

AVAILABILITY

Type	Density		Thickness	
	pcf	kg/m ³	in.	mm
812	1.50	24	1½-4	38-102
813	2.25	36	1½-4	38-102
814	3.00	48	1-4	25-102
815	4.25	68	1-2½	25-64
817	6.00	96	1-2	25-51

800 Series Spin-Glas is available plain or faced with an AP or FSK vapor retarder jacketing.

	1000 Series Spin-Glas (Boards)	
	in.	mm
Thickness	1-4 (½" inc.)	25-102 (13 mm inc.)
Width	24, 48	610, 1219
Length	48, 96	1219, 2438

	Precipitator Spin-Glas (Boards)	
	in.	mm
Thickness	1-4 (½" inc.)	25-102 (13 mm inc.)
Width	12, 24	305, 610
Length	48, 96	1219, 2438

	HTB 26 Spin-Glas (Rolls)	
	in.	mm
Thickness	1, 1½, 2, 3, 4	25, 38, 51, 76, 102
Width	24, 36, 48	610, 914, 1219
Length	◆	◆

◆ Length determined by thickness.

PERFORMANCE CHARACTERISTICS

**THERMAL CONDUCTIVITY ("k")
(ASTM C 177 AND C 518)**

Type	Mean Temperature	
	75°F	(24°C)
812	0.24*	0.035**
813	0.23*	0.033**
814	0.23*	0.033**
815	0.22*	0.032**
817	0.22*	0.032**

*Btu•in/(hr•ft²•°F) ** W/m • °C

**THERMAL CONDUCTIVITY ("k")
(ASTM C 177 AND C 518)**

Type	Mean Temperature	
	75°F	(24°C)
1000 SSG	0.23*	0.033**
Precipitator SG	0.23*	0.033**

*Btu•in/(hr•ft²•°F) ** W/m • °C

**THERMAL CONDUCTIVITY ("k")
(ASTM C 177 AND C 518)**

Type	Mean Temperature	
	75°F	(24°C)
HTB	0.26*	0.037**

*Btu•in/(hr•ft²•°F) ** W/m • °C

SPECIFICATION COMPLIANCE

- ASTM C 612 Type 1A and 1B
 - (813, 814, 815, 817)
- ASTM C 553, Type III
 - (812 Only)
- ASTM C 795
- ASTM C 1136
 - Type I – AP Facing
 - Type II – AP and FSK Facing
- ASTM E 84, UL 723, NFPA 255
- FHC 25/50, NFPA 90A and 90B
- HH-I-558C, Form B, Type I, Class 7
 - (812, 813, 814, 815)
- MIL-1-24244C
- NRC 1.36
- Canada: CGSB 51-GP-10M
CAN/ULC S102-M88

- ASTM C 612, Type II
- ASTM C 795
- ASTM E 84, FHC 25/50
- ASTM E 136 (Noncombustible)
- MIL-I-24244C
- MIL-I-22023D, Type I and II, Class 6
- USCG 164.009
- NRC 1.36
- CAN/51-GP-10M

- ASTM C 612, Type II
- ASTM C 795
- ASTM E 84, FHC 25/50
- ASTM E 136 (Noncombustible)
- HH-I-558C, Form B, Type I, Class 8
 - Up to 850°F (454°C)
- MIL-I-24244C
- USCG 164.009
- NRC 1.36
- CAN/51-GP-10M

- ASTM C 553, Type V
- ASTM C 1139, Type I, Grade 2
- ASTM C 795
- ASTM E 84, FHC 25/50
- ASTM E 136 (Noncombustible)
- HH-I-558C, Form B, Type I, Class 8
- MIL-I-22023D, Type I, Class 3
- MIL-I-24244C
- USCG 164.009
- NRC 1.36
- CAN/51-GP-11M



Fabrication Board

Semi-Rigid Fiber Glass Insulation Boards



Fabrication Boards are commonly fabricated into pipe and tank Insulation products used on heated pipes, ducts and equipment. They can also be used in sheet form, plain or faced, for commercial and industrial heating, air conditioning and process equipment.

Operating Temperature Limit: 850°F (454°C)

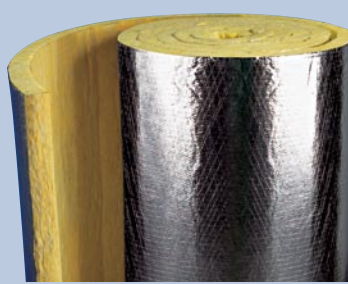
Type	Density		Thickness		High Temp. Limit	
	pcf	kg/m ³	in	mm	°F	°C
3005	3.0	48	1-4	25-102	850	454
3008	3.0	48	1-4	25-102	650	343

THERMAL CONDUCTIVITY ("k") (ASTM C 177 AND C 518)

Type	Mean Temperature			
	75°F	(24°C)	300°F	(149°C)
3005	0.23*	0.033**	0.33*	0.048**
3008	0.23*	0.033**	0.36*	0.052**

*Btu•in/(hr•ft²•°F) ** W/m • °C

ASTM C 612
 • Class 1 and 2
 • Class 3 (3005 Only)
 ASTM C 795
 HH-I-558B, Form A, Class 1 and 2
 ASTM E 84, UL 723, NFPA 255
 FHC 25/50, NFPA 90A and 90B
 MIL-I-24244B
 NRC 1.36



Micro-Flex™

Large Diameter Pipe and Tank Wrap



Unique fiber orientation gives it increased compressive strength, and permits close installation on round surfaces without reducing the thickness of insulation resulting in a loss of insulation efficiency. It is ideally suited for application on rounded shapes such as pipes, tanks, ducts and vessels.

Operating Temperature Limit:
0°F to 850°F (-18°C to 454°C)

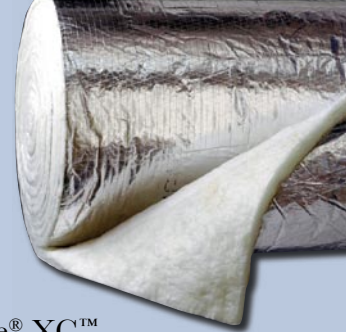
Thickness*	Width	
	in	mm
1-4	25-102	3 0.92
1-4	25-102	4 1.22

*Available in ½" (13 mm) increments.

THERMAL CONDUCTIVITY ("k") (ASTM C 177 AND C 518)

Mean Temperature	"k"		
	°F	°C	
	Btu•in/(hr•ft ² •°F)	W/m•°C	
75	24	0.24	0.035
150	66	0.28	0.040
200	93	0.32	0.046
300	149	0.39	0.056
400	204	0.46	0.066
500	260	0.58	0.084

ASTM C 1393, Type III A
 ASTM E 84
 NYC MEA # 360-03-E



Microlite® XG™

Formaldehyde-free™ Fiber Glass Duct Wrap



Microlite XG Formaldehyde-free™ duct wrap insulation is recommended as thermal insulation for the exterior of HVAC systems or other spaces or surfaces where temperature and acoustical control is required.

Operating Temperature Limit:
40°F to 250°F (4°C to 121°C) faced

Thickness	in.		mm	
	Type 75	Type 100	Type 150	Type 150
	1½	2	38	51
		2.3	59	76
		3	76	38
		1½	38	51
		2	51	38
		2	51	38

THERMAL PERFORMANCE – INSTALLED R - VALUE @ 75°F (24°C) MEAN TEMP.

Type	(in)	(mm)	(hr•ft ² •°F)/Btu	m ² •°C/W
75	1½	38	4.2	0.74
75	2	51	5.6	0.99
75	2.3	59	6.5	1.15
75	3	76	8.3	1.46
100	1½	38	4.5	0.79
100	2	51	6.0	1.06
150	1½	38	4.7	0.83
150	2	51	6.3	1.11

ASTM C 553-92
 • Type II – Type 75, 100 and 150
 • Type III – Type 150
 ASTM C 1290-95
 ASTM C 1139-90, Type II
 • Grade I – Type 75 Faced
 • Grade II – Type 100 Faced
 • Grade III – Type 150 Faced
 ASMT E 84, FHC 25/50 – FSK Facing
 ASTM C 1136, Type II – FSK Facing
 NYC MEA # 40-75-M
 Canada: CGSB 51-GP-11M
 CAN/ULC S102-M88