

800 SERIES SPIN-GLAS®

FIBERGLASS DUCT AND EQUIPMENT RIGID BOARD INSULATION

DATA SHEET

DESCRIPTION

800 Series Spin-Glas® duct and equipment insulation is manufactured from inorganic glass fibers bonded together with thermosetting resin. This rigid fiberglass board insulation is available plain or faced in a variety of densities for use on systems that operate up to 450°F (232°C). For faced products, surface temperature should not exceed 150°F (66°C). AP, FSK, or Ultra vapor retarder-faced material meets the requirements of NFPA 90A and 90B. Types 813, 814, 815 and 817 provide neat square corners for an excellent finished appearance on duct and equipment systems. Spin-Glas insulation can be readily cut with an ordinary knife and secured with mechanical fasteners and/or adhesives.

APPLICATIONS

800 Series Spin-Glas insulation can be used in plain or faced form to insulate heating ducts and equipment. Faced 800 Series Spin-Glas insulation is designed for systems that operate below ambient temperatures where vapor barrier protection is required. 800 Series Spin-Glas insulation is ideal for application in commercial and industrial heating, air conditioning, power and process equipment. These products are not designed for use inside air distribution duct work or equipment where the insulation will be directly exposed to an airstream. On systems operating below ambient temperatures, all seams should be tightly sealed with quality ASJ, foil or FSK tapes depending on the desired finish.

SPECIFICATION COMPLIANCE

Туре	812	813	814	815	817
ASTM C612, Type IA		Χ	Χ	Χ	Χ
ASTM C612, Type IB		Χ	Χ	Χ	Х
ASTM C533 Type III (Plain material only)	Χ				
ASTM E84, UL 723, NFPA 255,					
CAN/ULC S102-M88, FHC 25/50, Surface	Χ	Χ	Χ	Χ	Χ
Burning Characteristics (Composite)					
NRC 1.36, ASTM C795, MIL-DTL-24224D*			Х	X	v
(Cleburne material only)			٨	٨	٨
*When ordering material to comply with ASTM C795, NRC 1.36					

Canada: CGSB 51-GP-10M	Χ	Χ	Χ	Χ	Χ
ASTM C1136		T	ype I:	AP Fa	acing
(Replaces HH-B-100B, Type I & II)	T	ype II:	AP, F	SK, &	Ultra

NFPA 90A & 90B, FHC 25/50 & limited combustibility

PHYSICAL PROPERTIES

be provided.

Shrinkage

Unfaced Temp Limit (Max) 450°F (232°C)

Faced Temp Limit (Max) Unfaced Side: 450°F (232°C) Faced Side: 150°F (66°C)

Moisture Sorption Less than 5.0% by weight

Alkalinity Les than 0.6% expressed as Na₂0 Corrosivity Does not accelerate

Odor None

Resistance to fungi and bacteria Does not breed or promote

Moisture Vapor Transmission 0.02 perms max: FSK, AP, & Ultra

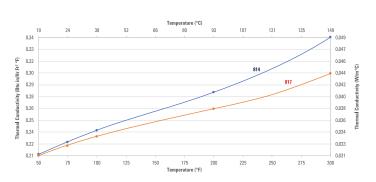
None





Operating Temperature Limit: Up to 450°F (232°C)

THERMAL CONDUCTIVITY ("K")



Туре	812	813	814	815	817
"k" @ 75°F mean	0.24	0.23	0.23	0.22	0.22
"k" @ 24°C mean	0.035	0.033	0.033	0.032	0.032

THERMAL PERFORMANCE (R-VALUES)

	Thickne	SS					
Type	1"	1½"	2"	2½"	3"	3½"	4"
812		6.3	8.3	10.4	12.5	14.6	16.7
813	4.3	6.5	8.7	10.9	13.0	15.2	17.4
814	4.3	6.5	8.7	10.9	13.0	15.2	17.4
815	4.5	6.8	9.1	11.4			
817	4.5	6.8	9.1				

FACING INFORMATION

FSK Reinforced Foil and Paper (Foil-Scrim-Kraft). Aluminum foil reinforced with fiber glass yarn and laminated with fire-resistant adhesive to kraft paper.

AP (All Purpose). The AP or All Purpose facing is an ASJ comprised of white kraft bonded to aluminum foil, reinforced with fiber glass yarn and laminated with fire-resistant adhesive to kraft paper.

Ultra (Polypropylene-Scrim-Polyester). The Ultra facing is a white, poly-top ASJ. It is comprised of a polypropylene exterior, reinforced with fiber glass yarn and a metalized polyester inner layer. This facing has no paper components.

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SOUND ABSORPTION COEFFICIENTS (ASTM C423 - TYPE "A" MOUNTING)

	Thick	ness	Frequency (Hz)					Frequency (Hz)		
Type (Plain)	in	mm	125	250	500	1000	2000	4000	NRC	
812	1.0	25	0.07	0.24	0.63	0.87	1.00	1.02	0.70	
	2.0	51	0.24	0.68	1.10	1.13	1.10	1.07	1.00	
813	1.0	25	0.08	0.27	0.69	0.95	1.05	1.02	0.75	
	2.0	51	0.19	0.88	1.15	1.14	1.10	1.07	1.05	
814	1.0	25	0.06	0.29	0.75	0.99	1.04	1.02	0.75	
	2.0	51	0.24	1.00	1.11	1.08	1.06	1.05	1.05	
815	1.0	25	0.03	0.32	0.80	1.04	1.05	1.05	0.80	
	2.0	51	0.27	0.91	1.11	1.09	1.09	1.09	1.05	
817	1.0	25	0.10	0.35	0.85	1.04	1.05	1.03	0.80	
	2.0	51	0.38	0.93	1.10	1.07	1.07	1.07	1.05	

AVAILABLE DENSITIES. THICKNESSES AND FACINGS

			Thickness (in ½" [13mm] increments)						
	Den	sity	Faced (F	SK/AP/Ultra)	Р	lain			
Туре	pcf	kg/m³	in	mm	in	mm			
812*	1.50	24	-	-	1½-4	38–102			
813	2.25	36	1–4	25–102	1–4	25–102			
814	3.00	48	1–4	25–102	1–4	25–102			
815	4.25	68	1-21/2	25–64	1-21/2	25–64			
817	6.00	96	1-2	25-51	1-2	25-51			

Standard Sheet Size: 24" x 48" (610 mm x 1219 mm). Non standard sizes available upon request. *Available from Defiance, OH, only.

GOVERNMENT CERTIFICATION

When ordering material to comply with any government specification or any other listed specification, a statement of that fact must appear on the purchase order. Government regulations and other listed specifications require specific lot testing and prohibit the certification of compliance after shipment has been made. There may be additional charges associated with specification compliance testing.

ISO 9001:2015 CERTIFICATION

Johns Manville mechanical insulation products are designed, manufactured and tested in our own facilities, which are certified and registered to stringent ISO 9001:2015 series quality standards. This certification, along with regular, independent third-party auditing for compliance, is your assurance that Johns Manville products deliver consistent high quality.

RECYCLED CONTENT





717 17th St. Denver, CO 80202 800-654-3103 www.JM.com

North American Sales Offices, Insulation Systems

Eastern Region and Canada

P.O. Box 158 Defiance, OH 43512 800-334-2399 Fax: 419-784-7866

Western Region

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 800 Series Spin-Glas 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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