

MINWOOL-1200® PIPE

MinWool-1200 Pipe is a water-repellent, mandrel-wound mineral wool pipe insulation with a thermosetting resin binder designed for piping and acoustical applications from 0°F (-18°C) up to 1200°F (650°C).

BENEFITS

Water-Repellent: MinWool-1200 Pipe is water-repellent to help mitigate the risk of water intrusion. MinWool-1200 Pipe performs in accordance with BS EN 13472, absorbing less than 0.35kg/m² of water during water absorption tests at temperatures up to 425°F (218°C).

Acoustical Performance: MinWool-1200 Pipe insulation meets and exceeds ISO 15665 criteria for classes A3, B3, C3, and D3 (Shell Dep Spec. No 31).

Thermal Performance: Good thermal conductivity values help minimize and control heat loss, contributing to reduced operating costs and greater energy savings. High dimensional stability and low shrinkage reduce the potential for gaps forming at joints.

Light Weight & Low Dust: Easy to handle and fabricate, MinWool-1200 Pipe is easy to cut with a knife. Clean handling properties help reduce irritation and minimize job clean-up time and expense.

Low Smoke & Flame Spread: MinWool-1200 Pipe has a flame spread rating of 0 and a smoke developed rating of 0 when tested in accordance with ASTM E84 and UL 723.

Non-Combustible: MinWool-1200 Pipe is rated as non-combustible in accordance with ISO 1182.

APPLICATIONS

MinWool-1200 Pipe Insulation provides excellent thermal insulation performance for mechanical/power and process piping systems operating from 0°F (-18°C) to 1200°F(650°C). This molded pipe insulation is easily fabricated, cutting cleanly and easily with a knife. Very low in-service shrinkage helps prevent gaps from forming at joints, preventing costly thermal leaks.

AVAILABLE FORMS & SIZES

Standard Thicknesses Available:

1in to 6in (25mm-152mm) in ½in (15mm) Increments

Standard Length Available: 36in (914mm)

Pipe Sizes		
(in.)	(mm)	Form
½ - 6	15-152	One Piece
7-24	175-600	Two Piece
25-44	625-1100	Four Piece

LINEAR SHRINKAGE AFTER 24 HRS. @ TEMPERATURE

Temperature		Shrinkage (%)
°F	°C	
1050	566	0
1200	649	<2



PRODUCT CERTIFICATION

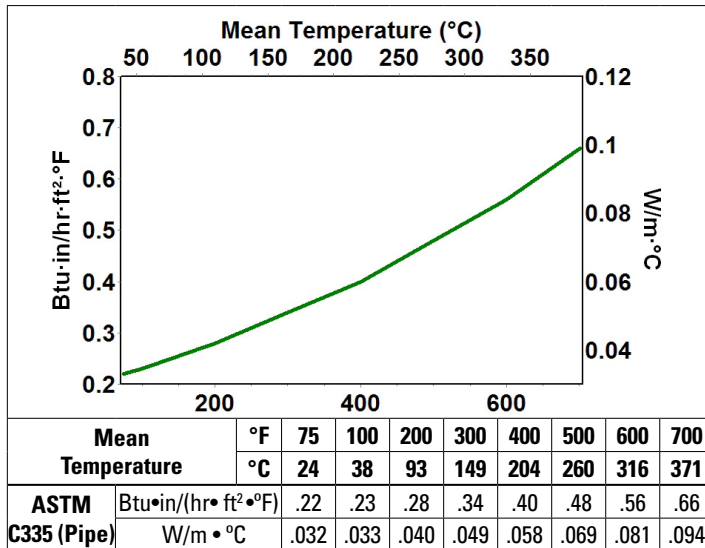
When ordering material to comply with any government specification or any other listed specification, a statement of that fact must appear on the purchase order. Government regulations and other listed specifications require specific lot testing, and prohibit the certification of compliance after shipment has been made. There may be additional charges associated with specification compliance testing. Please refer to our Certification Procedures and Charges page for pricing. Call customer service for more information (1-800-866-3234).

QUALITY STATEMENT

Johns Manville industrial products are designed, manufactured and tested to strict quality standards in our own facilities. This, along with third party auditing is your assurance that this product delivers consistently high quality.

SPECIFICATION COMPLIANCE

ASTM C447 (Maximum Service Temp.)	1200°F (650°C)
ASTM C547 Types I, II, IV (Material Spec.)	Complies
ASTM C585 (Dimensional Pipe Insulation)	Complies
ASTM C1617 (Corrosivity to Steel)	<5 ppm Chloride Solution
ASTM C795/C871/C692 Corrosion: Austenitic Stainless Steel	Passes
ASTM C1104 (Water Vapor Sorption)	<1% by Weight, <.02% by Volume @120°F(50°C), 95% RH
ASTM E84 (Surface Burning Characteristics)	Flame Spread: 0 Smoke Developed: 0
ISO 1182 (Non-Combustible)	Passes
Recovery after 10% Compression	100%
ASTM C1335 (Shot Content)	<25%
BS EN 13472 (Water Absorption)	<0.35kg/m ²
ISO 15665 (Acoustic Insulation)	Pass: A3, B3, C3, D3

THERMAL CONDUCTIVITY

*MinWool-1200 Pipe Insulation is tested in accordance with ASTM C335.

SOUND ABSORPTION COEFFICIENTS

Thickness (in/mm)	1/3 Octave Band Center Frequencies, Hz						
	125	250	500	1000	2000	4000	NRC
1.5/38	0.19	0.80	1.01	1.03	0.99	0.99	0.95
2.0/51	0.38	0.93	1.01	1.00	0.97	1.00	1.00
3.0/76	0.84	0.89	0.97	1.02	1.02	1.00	1.00
4.0/102	0.80	0.90	0.96	1.03	0.99	1.01	0.95

ASTM E1222 - STANDARD TEST METHOD FOR LABORATORY MEASUREMENT OF THE INSERTION LOSS OF PIPE LAGGING

Thickness (in/mm)	Minimum Insertion Loss, dB												
	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000
1.5/38	-1	1	2	6	8	16	16	17	18	21	20	23	31
2.0/51	0	1	1	7	8	17	19	22	22	26	27	30	36
3.0/76	0	0	1	8	10	17	17	23	24	28	29	32	36
4.0/102	7	3	6	11	13	21	20	31	30	33	34	35	42



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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 the MinWool-1200® Pipe 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. Check with the Regional Sales Office nearest you for current information.

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.

ISO 15665 ACOUSTICAL REQUIREMENTS

Class	Range of Nominal Diameter D (IPS)*	Octave Band Center Frequency (Hz)						
		125	250	500	1000	2000	4000	8000
		Minimum Insertion Loss (dB)						
A1	$D < 12''$	-4	-4	2	9	16	22	29
A2	$12'' \leq D < 26''$	-4	-4	2	9	16	22	29
A3	$26'' \leq D < 40''$	-4	2	7	13	19	24	30
B1	$D < 12''$	-9	-3	3	11	19	27	35
B2	$12'' \leq D < 26''$	-9	-3	6	15	24	33	42
B3	$26'' \leq D < 40''$	-7	2	11	20	29	36	42
C1	$D < 12''$	-5	-1	11	23	34	38	42
C2	$12'' \leq D < 26''$	-7	4	14	24	34	38	42
C3	$26'' \leq D < 40''$	1	9	17	26	34	38	42
D2	$12'' \leq D < 26''$	-3	4	15	36	45	45	45
D3	$26'' \leq D < 40''$	3	9	26	36	45	40	40

* Pipe sizes used are:

Less than 12" IPS outside diameter

Greater than or equal to 12" IPS diameter but less than 26" IPS

Greater than or equal to 26" IPS diameter but less than 40" IPS