Johns Manville
A Berkshire Hathaway Company

OEM INSULATION

MINWOOL-1200®

HIGH TEMPERATURE MINERAL WOOL BOARD

DATA SHEET

DESCRIPTION

MinWool-1200® is made of inorganic fibers derived from basalt, a volcanic rock. Advanced manufacturing technology ensures consistent product quality, with high fiber density and low shot content for excellent performance in high-temperature and fire resistance applications.

APPLICATIONS

JM's Mineral Wool board, with service temperature capability to 1200°F, is inorganic, noncombustible and will not mildew or support corrosion. These high temperature boards are easily fabricated, cutting cleanly and easily with a knife. These product attributes make Mineral Wool board ideal for commercial appliance, hearth, crematorium and fire protection (e.g, fire door) applications.

Note: Made-to-Order (MTO), Mineral Wool Board can be manufactured to be moisture repellent.

CUSTOM FABRICATION

The Johns Manville nationwide network of approved fabricators specializes in secondary processing to supply custom parts to meet customer specific requirements.

Die-cutting, laminating, special packaging and just-in-time delivery are just a few of the multiple capabilities our fabricators can provide.

INSULATION PROPERTIES

- High temperature applications to 1200°F
- Excellent thermal and acoustical performance
- Low shrinkage
- Easy to fabricate
- Easy to handle and install
- Can be mechanically fastened

AVAILABLE FORMS & SIZES

Nominal Density	Type				
	1240	1260	1280	1210	1212
lb/ft³	4	6	8	10	12
kg/m³	64	96	128	160	192

Thickness	1½"	2"	3"	4"
	38.1mm	50.8mm	76.2mm	101.6mm
Width	24", 36"			
	610mm, 914mm			
Length	48"			
	1219mm			

All densities available in thicknesses and widths listed above

SPECIFICATION COMPLIANCE

Test Method	Description	Values
ASTM C447	Max. Service Temp.	1200°F (650°C)
ASTM E136	Non-Combustible	Passes
ASTM C665	Corrosivity to Steel	Passes (non-corrosive)
ASTM C356	Linear Shrinkage	< 2%, 1200°F (650°C)
ASTM C1335	Shot Content	< 25%
ASTM C1104	Water Vapor Sorption (by volume)	Absorbs 0.02%
ASTM E84	Flame Spread Smoke Developed	5 0
UL 723 / CAN/ ULC S102	Flame Spread Smoke Developed	5 0

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THERMAL CONDUCTIVITY (IP Units BTU • in/(hr • ft² • °F)

Mean Temp (°F)	Type				
	1240	1260	1280	1210	1212
25	0.21	0.22	0.22	0.22	0.22
75	0.24	0.23	0.23	0.23	0.23
100	0.26	0.25	0.25	0.25	0.25
200	0.32	0.30	0.30	0.30	0.30
300	0.40	0.36	0.36	0.35	0.35
400	0.49	0.42	0.42	0.41	0.40
500	0.62	0.53	0.49	0.47	0.46
600	0.75	0.63	0.56	0.54	0.52
700	0.90	0.75	0.64	0.62	0.59

THERMAL CONDUCTIVITY (SI Units W/m • °C)

Mean Temp (°C)	Type				
	1240	1260	1280	1210	1212
-4	0.030	0.032	0.032	0.032	0.032
24	0.035	0.033	0.033	0.033	0.033
38	0.037	0.036	0.036	0.036	0.036
93	0.046	0.043	0.043	0.043	0.043
149	0.058	0.052	0.052	0.050	0.050
204	0.071	0.061	0.061	0.059	0.058
260	0.089	0.076	0.071	0.068	0.066
316	0.108	0.091	0.081	0.078	0.075
371	0.130	0.108	0.092	0.089	0.085

SOUND ABSORPTION COEFFICIENTS

Thickness			1/3 Octave Band Center Frequencies, Hz						
Type	(in)	(mm)	125	250	500	1000	2000	4000	NRC
1240	1 ½	40	0.13	0.48	1.02	1.08	1.02	1.01	0.90
	2	50	0.20	0.61	1.07	1.06	1.04	1.07	0.95
	4	100	0.88	1.14	1.17	1.08	1.06	1.10	1.10
	6	150	1.32	1.14	1.11	1.09	1.06	1.07	1.10
1260	1 ½	40	0.18	0.62	1.08	1.08	1.03	1.07	0.95
	2	50	0.25	0.85	1.15	1.10	1.04	1.06	1.05
	3	75	0.80	1.07	1.11	0.99	0.98	0.96	1.05
	4	100	0.99	1.01	1.10	1.03	1.03	1.05	1.05
1280	1 ½	40	0.13	0.64	1.08	1.04	1.04	1.07	0.95
	2	50	0.32	0.90	1.11	1.01	1.01	1.05	1.00
	4	100	1.11	0.91	1.03	1.06	1.06	1.07	1.00

Johns Manville

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INSULATION SYSTEM
OEM INSULATION

OEM CUSTOMER SERVICE
800-426-2435

PRODUCT & TECHNICAL INFORMATION
800-654-3103

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 MinWool-1200 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.

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