

**DuraCore®**  
*HVAC Equipment Insulation*

**Description**

DuraCore® fiber glass insulation is a lightweight, highly resilient, blanket-type insulation made from borosilicate glass fibers. The insulation blanket is fiber glass bonded with a thermosetting phenolic resin and is designed to provide this product with excellent core strength.

DuraCore is an excellent choice for HVAC equipment applications because it provides high acoustical values in the high and low frequency ranges normally encountered in HVAC equipment.

JM DuraCore is manufactured with solid, consistent fiber and binder distribution to produce a stronger insulation with enhanced core strength that makes it stiffer and less susceptible to delamination.

State-of-the-art glass technology produces a lower thermal conductivity ("k") value to meet all your thermal performance requirements, in an easier-handling blanket.

**Equipment Applications**

The glass fibers in DuraCore insulation are noncombustible, non-hygroscopic, and do not support fungi or vermin.

DuraCore meets typical industry standards for core and tensile strength, which makes the product more resistant to damage during lamination and installation. Because of its resiliency and flexibility, DuraCore resists settling, breakdown, sagging from vibration, and damage from impact. DuraCore insulation conforms easily around corners and curved surfaces and is readily cut in die presses or with a knife.

**Applications**

HVAC Equipment

- Fan coils
- Furnaces
- Air conditioners
- Air handlers

**Advantages**

- **Higher core strength** to resist delamination and allow easier, quicker fabrication for greater productivity
- **Lower thermal conductivity** for better thermal performance
- **Less dust** for comfortable handling

**Available Forms**

DuraCore is available in 1.8 pcf (28.8 kg/m<sup>3</sup>) and 2.0 pcf (32.0 kg/m<sup>3</sup>), ½", ¾" and 1" thick blankets, and several standard widths. You can order other widths to fit your specific requirements on a special-order basis.

**Custom Fabrications**

The Johns Manville nationwide network of Approved Fabricators specializes in secondary processing to supply custom parts to meet specific customer requirements. Die-cutting, laminating, special packaging and just-in-time delivery are just a few of the multiple capabilities our fabricators can provide.



**Specifications**

Temperature Limit	350°F (177°C) (unfaced)
Meets Requirements of ASTM C1071, Type I, Rolls (with the exception of air erosion resistance)	
Fire Hazard Classification (FHC)	25/50 Flame Spread/Smoke Developed Ratings (per ASTM E84, UL 723, and CAN/ULC S102-M88). Labels supplied when requested on order. Meets NFPA 90A and 90B.



# DuraCore®

## HVAC Equipment Insulation

### Thermal Conductivity (k) per ASTM C618

Mean Temp. @ 75°F (24°C)

Btu•in/(hr•ft <sup>2</sup> •°F)	W/m•°C
0.24	0.035

### Acoustical Performance

#### Sound Absorption Coefficients\* Type "A" Mounting

Thickness		Frequency (Hz)						
in.	mm	125	250	500	1000	2000	4000	NRC**
½	13	0.03	0.11	0.33	0.56	0.72	0.85	0.40
¾	19	0.06	0.16	0.42	0.68	0.83	0.95	0.50
1	25	0.05	0.24	0.59	0.82	0.94	1.05	0.65

\*Tested in accordance with ASTM C423 and ASTM E795.

\*\*Noise reduction coefficient.

Note: Values above are for both 1.8 pcf and 2.0 pcf blankets.



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 www.JM.com

### Insulation Systems, OEM Insulations

**For OEM Customer Service:**  
 (800) 426-2435

**For Product and  
 Technical Information:**  
 (800) 654-3103

The physical and chemical properties of DuraCore® HVAC equipment insulation 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. Numerical flame spread and 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 to ensure current information. **All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions including Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions, Limited Warranty and Limitation of Remedy, and information on other Johns Manville thermal insulations and systems, call (800) 654-3103.**