Industrial Insulation



Thermafiber® Industrial Felt

- + Fire resistant to temperatures above 2,000°F (1,093°C)
- + Excellent thermal performance (R-Value up to 4.2 per inch)
- + Excellent sound and noise absorption
- + Easily fabricated and installed
- + Moisture resistant
- + Mold resistant







Thermafiber[®] Industrial Felt

Description:

THERMAFIBER Industrial Felt is an economical mineral fiber board for thermal, fire protection, and sound control applications. The fine-fiber, semi-rigid composition makes industrial felt easy to handle. It is available from 2.5 pcf to 12.0 pcf density along with many different facing options if needed. The wide range of densities make Thermafiber felt adaptable for industrial applications in a broad scope of low or high temperature applications. These asbestos-free products adsorb less than 1% moisture, are vermin-proof and mold resistant. On initial start-up only, heat rise should not exceed 15°F per minute to allow binder to dissipate without excessive temperature rise. Thermal conductivity is not affected.

Product Options:

Recycled Content Options¹:

, Special "Gr	een" F	-iber	 	 	 	. 90%
Standard F	iber		 	 	 	. 70%

¹Recycled content options other than Standard must be specified at time of order.

Standard Sizes:

Density	Thickness*	Widths**	Lengths**			
2.5 – 4.5 pcf	1 1⁄2" – 6"	24", 36, 72"	48", 60", 72"			
6 pcf	1" – 6"	24", 36, 72"	48", 60", 72"			
7 -8 pcf	1" – 5"	24", 36, 72"	48", 60", 72"			
9 pcf	1" – 4"	24", 36, 72"	48", 60", 72"			
10 pcf	1" – 3"	24", 36, 72"	48", 60", 72"			
12 pcf 1"-2 ½" 24", 36, 72" 48", 60", 72"						
Tolerances -1/8", +1/4" ± 1/8" ± 1						
*Thicknesses are available in 1/2" increments. **Custom sizes are available upon request.						

Technical Data:

	Thermal Conductivity' tested to ASTM C 518							Tested to ASTM E 84				
	K-factor – Btu ● in/hr ●ft² ●°F							Unfa	ced	Foil Faced		
Density	75°	150°	200°	300°	400°	500°	700°	Flame Spread	Smoke Developed	Flame Spread	Smoke Developed	
2.5	.27	-	.40	.51	-	-	-	0	0	25	0	
3.0	.26	-	.35	.45	-	-	-	0	0	25	0	
3.5	.26	-	.35	.44	-	-	-	0	0	25	0	
4.0	.24	-	.34	.42	.51	.60	-	0	0	25	0	
4.5	.24	-	.33	.41	.49	.58	-	0	0	25	0	
6.0	.24	-	.30	.38	.46	.56	-	0	0	25	0	
7.0	.24	-	.30	.37	.45	.55	-	0	0	25	0	
8.0	.24	-	.29	.35	.43	.53	-	0	0	25	0	
9.0	.24	-	.28	.34	.42	.51	-	0	0	25	0	
10.0	.24	.27	-	.34	-	.48	.67	0	0	25	0	
12.0	.25	.28	-	.34	-	.47	.61	0	0	25	0	
¹ Degrees represent mean temperature												

NRC Data: Coefficients at Frequencies per ASTM C 423										
Density	Thickness	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	NRC		
4 pcf	1"	.06	.24	.58	.81	.85	.90	.60		
6 pcf	1"	.07	.24	.62	.87	.91	.91	.65		
8 pcf	1"	.10	.37	.82	.97	.91	.89	.75		
12 pcf	1"	.09	.31	.77	.96	.99	.94	.75		
4 pcf	2"	.33	.71	1.13	1.15	1.08	1.09	1.00		
6 pcf	2"	.36	.79	1.15	1.04	1.01	1.04	1.00		
8 pcf	2"	.35	.84	1.08	1.04	.96	.93	1.00		
12 pcf	2"	.40	.79	.78	.94	.94	.87	.85		
2.5 pcf	4"	.83	1.19	1.27	1.12	1.12	1.13	1.20		
4 pcf	4"	1.01	1.26	1.23	1.13	1.11	1.09	1.20		
6 pcf	4"	1.15	1.17	1.18	1.03	1.06	1.08	1.10		

Maximum Hot Surface Temperature One Side (en- closed panel) per ASTM C 411						
Density	Maximum ° F					
2.5 pcf	400					
3.0 pcf	500					
3.5 pcf	600					
4.0 -5.0 pcf	850					
6.0-7.0 pcf	1,200					
8.0-10.0 pcf	1,200					
12.0 pcf 1,350						
Note: Temperatures above 450° require mechanical support						

Date

Standards Compliance:

For Further Information:

ASTM E 136	Rated Non-combustible per NFPA Standard 220
ASTM C 665	Non-Corrosive
MIL-I-24244	Meet applicable analysis for austenitic stainless steel
ASTM C 612	3.0 pcf IA 4.0-4.5 pcf 1A, 1B, II 6.0-8.0 pcf Type 1A, 1B, II, III, IVA
ASTM C 612	9.0-10.0 pcf 1A, 1B, II, III, IVA, IVB 12.0 pcf 1B, II, III, IV (Expect linear shrinkage over 1,300°F)
ASTM C 553	3.0-12.0 Type III
ASTM C 1104	Adsorption less than 1% by volume
ASTM C 165	12 pcf-590 psf@10% compression, 10pcf - 460 psf@10% compression
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Submittal Approvals:

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Notice:

Job Name Contractor

it of defective goods. Any claim shall be deemed waived unless made in writing within thirty (30) days from date it was or reasonably should have been discovered.

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