

# U.S. Coast Guard Felt

## Maritime Insulation

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



Thermafiber U.S. Coast Guard Felt meets requirements for insulating structural bulkheads in vessels operating within all U.S.A. waters.



U.S. Coast Guard Felts are classified as noncombustible and have achieved fire resistance ratings. The semi-rigid boards are easy to fabricate and install.



**Thermafiber**<sup>®</sup>  
THE **NAME** IN MINERAL WOOL™



# Thermafiber® U.S. Coast Guard Felt

## Description:

THERMAFIBER U.S. Coast Guard Felt is available from 3.0 pcf to 9.0 pcf density, is highly suited for use on vessels operating within U.S.A. waters. Felts are classified noncombustible, have achieved fire-resistance ratings, and meet requirements for insulations impaled on structural bulkheads. These asbestos-free products are permanent, absorb less than 1% moisture, vermin-proof and mold resistant. They do not corrode steel or aluminum as tested per HH-I-558B.

## Product Options:

### Recycled Content Options<sup>1</sup>:

Special "Green" Fiber .....	90%
Dark Fiber .....	84%
EPA Choice Fiber (US Government).....	75%
Standard Fiber .....	70%

<sup>1</sup>Recycled content options other than Standard must be specified at time of order.

## Installation:

The frequency, location and size of attachment points vary depending on the thickness of the insulation. For most applications, 12 SWG (Standard Wire Gauge) steel weld pins should be attached to the substrate and a minimum of 1 1/2" diameter round clinch shield should be used to hold the insulation in place on the pin. This type of weld pin is recommended because it resists fire exposure conditions. Pin spacing is normally 12" o.c., but spacing may be less than 12" o.c. for thicker insulations. When insulation thickness exceeds 5", 10 SWG steel weld pins should be used.

## Standard Sizes:

Density	Thickness*	Widths**	Lengths**
3.0 pcf	1 1/2" - 6"	24", 36"	48", 60"
4.0 pcf - 6.0 pcf	1" - 6"	24", 36"	48", 60"
7.0 pcf - 8.0 pcf	1" - 5"	24", 36"	48", 60"
9.0 pcf	1" - 4"	24", 36"	48", 60"
Tolerances	+ 1/4" - 1/8"	± 1/8"	± 1/2"
*Thicknesses are available in 1/2" increments. **Custom sizes are available upon request.			

## Technical Data:

Actual Density	Tested to ASTM C 518		Tested to ASTM E 84	
	"k" @ 75° [25°C] BTU.in/hr.sq. ft. °F	"R" value per inch of thickness***	Flame Spread	Smoke Developed
3.0 pcf	0.25	4.0	0	0
4.0 pcf - 9.0 pcf	0.24	4.2	0	0
***R = Thickness divided by 'k'				

U.S. Coast Guard Specifications	
USCG Specification	Applicable Products
N & VI Circular C-680 A-15 (15 min.)	7.0 pcf, 1 1/2" thick
Standard 164.007/46/0 A-30 (30 min.)	6.0 pcf, 2" thick
Standard 164.007/40/0 A-60 (60 min.)	6.0 pcf, 4" thick 7.0 pcf, 2 1/2" thick
Standard 164.009/54	3.0 pcf - 9.0 pcf, all thicknesses
Based on the National Bureau of Standards fire test report FR 3812	

Maximum Hot Surface Temperature One Side (enclosed panel) per ASTM C 411	
Density	Maximum °F
3.0 pcf	500
4.0 pcf	850
6.0 pcf - 7.0 pcf	1,000
8.0 pcf - 9.0 pcf	1,200
Note: Temperatures above 450° require mechanical support.	

## Standards Compliance:

<b>MIL-I-24244A</b>	Meet applicable analysis for austenitic stainless steel
<b>ASTM C665</b>	Non-Corrosive, Type I
<b>ASTM C 612</b>	3.0 pcf IA, 1B 4.0 pcf 1A, 1B, II
<b>ASTM C 612</b>	6.0 pcf-9.0 pcf 1A, 1B, II, III
<b>ASTM C 553</b>	Type III
<b>ASTM E 136</b>	Rated Non-combustible per NFPA Standard 220 & IMO 164, 109/11/0
<b>ASTM C 1104</b>	Absorption less than 1% by volume
<b>ASTM C 356</b>	Linear shrinkage <2% @ 1200° F (650°C)

## For Further Information:

For additional information about these or other Thermafiber products contact us at 1-888-834-2371 or visit our website [www.thermafiber.com](http://www.thermafiber.com).

## Notice:

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## Submittal Approvals:



Job Name	
Contractor	Date