





temperature rise. Thermal conductivity is not affected.

Features

- Used in continuous service up to 1,200°F (649°C)
- · Excellent sound and noise absorption
- · Easily fabricated and installed
- Noncorrosive
- · Wide range of densities and dimensions available

Standards, Code Compliance

ASTM C612, Mineral Fiber Block & Board, Thermal Insulation:

- · Industrial Felt 25: Types I, II, III, IVA
- · Industrial Felt 30: Types I, II, III, IVA
- · Industrial Felt 35: Types I, II, III, IVA
- Industrial Felt 40: Types I, II, III, IVA
- Industrial Felt 45: Types I, II, III, IVA, IVB
- Industrial Felt 50: Types I, II, III, IVA, IVB
- · Industrial Felt 60: Types I, II, III, IVA, IVB
- Industrial Felt 65: Types I, II, III, IVA, IVB
- Industrial Felt 70: Types I, II, III, IVA, IVB
- · Industrial Felt 80: Types I, II, III, IVA, IVB
- · Industrial Felt 90: Types I, II, III, IVA, IVB
- · Industrial Felt 95: Types I, II, III, IVA, IVB
- Industrial Felt 100: Types I, II, III, IVA, IVB
- Industrial Felt 120: Types I, II, III, IVA, IVB
- Doesn't contain the fire retardant decabrominated diphenyl ether (decaBDE)

Thermal Performance

Maximum Hot Surface Temperature One Side (enclosed panel) per ASTM C411

| DENSITY | MAXIMUM °F |
|------------------|------------|
| 2.5 pcf | 400 |
| 3.0 pcf | 500 |
| 3.5 pcf | 600 |
| 4.0 pcf-10.0 pcf | 1,200 |
| 12.0 pcf | 1,350 |

Physical Properties

| PROPERTY | TEST METHOD | VALUE | | | |
|---|--|---|--|--|--|
| Density (Actual) | ASTM C303 | Industrial Felt 25 2.5 pcf Industrial Felt 30 3.0 pcf Industrial Felt 35 3.5 pcf Industrial Felt 40 4.0 pcf Industrial Felt 45 4.5 pcf Industrial Felt 50 5.0 pcf Industrial Felt 60 6.0 pcf Industrial Felt 70 7.0 pcf Industrial Felt 70 7.0 pcf Industrial Felt 80 8.0 pcf Industrial Felt 80 9.0 pcf Industrial Felt 90 9.0 pcf Industrial Felt 90 9.5 pcf Industrial Felt 90 10.0 pcf Industrial Felt 100 10.0 pcf Industrial Felt 100 12.0 pcf Industrial Felt 120 12.0 pcf | | | |
| Maximum Use Temperature ¹ | ASTM C411 | Up to 1,200°F (649°C) | | | |
| Linear Shrinkage | ASTM C356 | <2.0% at 1,200°F (649°C) | | | |
| Water Vapor Sorption | ASTM C1104 | <3.0% by weight at 120°F (49°C), 95% R.H. | | | |
| Fungi Resistance | ASTM C1338 | Pass - No growth | | | |
| CORROSION RESISTANCE | TEST METHOD | VALUE | | | |
| 0 : 1 0 | | Pass | | | |
| Corrosion to Copper, Aluminum, and Steel | ASTM C665 | Pass | | | |
| | ASTM C665 ASTM C1617 | Pass Pass | | | |
| Aluminum, and Steel | | 1 | | | |
| Aluminum, and Steel Corrosion to Steel Stress Corrosion Evaluation on external stress corrosion cracking tendency of | ASTM C1617 ASTM C795 and | Pass | | | |
| Aluminum, and Steel Corrosion to Steel Stress Corrosion Evaluation on external stress corrosion cracking tendency of austenitic stainless steel ² Chemical Analysis for | ASTM C1617 ASTM C795 and ASTM C692 ASTM C795 and | Pass Pass Results fall within acceptability | | | |
| Aluminum, and Steel Corrosion to Steel Stress Corrosion Evaluation on external stress corrosion cracking tendency of austenitic stainless steel ² Chemical Analysis for CI-, FI-, Na+, SiO3 ² Nonmetallic Thermal | ASTM C1617 ASTM C795 and ASTM C692 ASTM C795 and ASTM C795 and ASTM C871 | Pass Pass Results fall within acceptability limits | | | |
| Aluminum, and Steel Corrosion to Steel Stress Corrosion Evaluation on external stress corrosion cracking tendency of austenitic stainless steel ² Chemical Analysis for Cl-, Fl-, Na+, SiO3 ² Nonmetallic Thermal Insulation ² | ASTM C1617 ASTM C795 and ASTM C692 ASTM C795 and ASTM C871 NRC 1.36 | Pass Pass Results fall within acceptability limits Complies | | | |

Thermal Conductivity

| | TESTED TO ASTM C177 K-VALUE – (BTU · IN/HR · FT² · °F) | | | | | | | |
|---------------------|--|------|------|------|------|------|------|------|
| PRODUCT | 75° | 100° | 200° | 300° | 400° | 500° | 600° | 700° |
| Industrial Felt 3.5 | 0.24 | 0.26 | 0.34 | 0.42 | 0.52 | 0.63 | 0.76 | 0.92 |
| Industrial Felt 4.5 | 0.22 | 0.24 | 0.29 | 0.35 | 0.42 | 0.50 | 0.59 | 0.71 |
| Industrial Felt 6 | 0.23 | 0.24 | 0.29 | 0.35 | 0.42 | 0.50 | 0.59 | 0.71 |
| Industrial Felt 8 | 0.23 | 0.24 | 0.28 | 0.33 | 0.38 | 0.44 | 0.51 | 0.60 |
| Industrial Felt 10 | 0.24 | 0.25 | 0.29 | 0.33 | 0.38 | 0.44 | 0.52 | 0.60 |
| Industrial Felt 11 | 0.24 | 0.25 | 0.28 | 0.32 | 0.36 | 0.41 | 0.46 | 0.52 |

Acoustical Performance

TESTED TO ASTM C423 & E795 SOUND ABSORPTION COEFFICIENTS AT OCTAVE

| | | BAND CENTER FREQUENCIES (HZ) | | | | | | |
|---------|-----------|------------------------------|------|------|------|------|------|------|
| DENSITY | THICKNESS | 125 | 250 | 500 | 1000 | 2000 | 4000 | NRC |
| 4 pcf | 1" | 0.06 | 0.24 | 0.58 | 0.81 | 0.85 | 0.90 | 0.60 |
| 6 pcf | 1" | 0.07 | 0.24 | 0.62 | 0.87 | 0.91 | 0.91 | 0.65 |
| 8 pcf | 1" | 0.10 | 0.37 | 0.82 | 0.97 | 0.91 | 0.89 | 0.75 |
| 12 pcf | 1" | 0.09 | 0.31 | 0.77 | 0.96 | 0.99 | 0.94 | 0.75 |
| 4 pcf | 2" | 0.33 | 0.71 | 1.13 | 1.15 | 1.08 | 1.09 | 1.00 |
| 6 pcf | 2" | 0.36 | 0.79 | 1.15 | 1.04 | 1.01 | 1.04 | 1.00 |
| 8 pcf | 2" | 0.35 | 0.84 | 1.08 | 1.04 | 0.96 | 0.93 | 1.00 |
| 12 pcf | 2" | 0.40 | 0.79 | 0.78 | 0.94 | 0.94 | 0.87 | 0.85 |
| 2.5 pcf | 4" | 0.83 | 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 |

Availability

For product availability, please contact your local Owens Corning area sales manager.

Industrial Felt is available with white foil and BGV facings by request for an additional charge.

| PRODUCT | THICKNESS ⁴ | WIDTHS ⁵ | LENGTHS ⁵ | DENSITY |
|-----------------|------------------------|---------------------|----------------------|---------|
| Industrial Felt | 1"-8" | 24", 36", 48" | 48", 60", 72" | < 7 pcf |
| Industrial Felt | 1.5"-5" | 24", 36", 48" | 48", 60", 72" | > 7 pcf |
| Tolerances | +1/4", -1/8" | ±1/8" | +3/4", -1/4" | |

- 4 Thicknesses are available in ½-inch increments.
- 5 Custom sizes are available upon request.

Installation

Thermafiber Inc. recommends mechanical attachment of Industrial Felt products unless in an enclosed panel.

See Owens Corning publication "Industrial Board Products Installation Instructions" (Pub. No. 10024272) for more information.

Please contact your sales representative or GETTECH@owenscorning.com for further questions.

Certifications and Sustainable Features

- Verified by ICC-ES to contain a minimum of 70% recycled content.
 See ICC-ES Evaluation Report VAR-1025 at icc-es.org.
- Environmental Product Declaration (EPD) has been certified by UL Environment. For more information, visit ul.com/epd.
- Material Health Certificate from Cradle to Cradle Products Innovation Institute. For more information, visit c2ccertified.org.







Environmental and Sustainability

Owens Corning is a worldwide leader in building material systems, insulation, and composite solutions, delivering a broad range of high-quality products and services. Owens Corning is committed to driving sustainability by delivering solutions, transforming markets, and enhancing lives. More information can be found at www.owenscorning.com.

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Notes

For additional information, refer to the Safe Use Instruction Sheet (SUIS) found in the SDS Database via http://sds.owenscorning.com.

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