



R&D Services, Inc.
209 Tennessee Blvd
Watertown, TN 37184
(931) 372-8871
www.rdservices.com

PRODUCT LISTING

RDS-S8570

Issued: January 1, 2023
Renewal Due: January 1, 2024

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- 1.0 **PRODUCT:** ThermShield
 - 2.0 **MANUFACTURER:** Erie Energy Products, Inc.
 - 3.0 **MANUFACTURING LOCATIONS:** 1400 Irwin Dr.
Erie, PA 16505
 - 4.0 **PRODUCT TYPE:** Stabilized Cellulose Insulation (Boric Acid Formula)
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5.0 PRODUCTS ARE EVALUATED ACCORDING TO THE FOLLOWING STANDARDS:

- 5.1 ASTM C1497-12 "Standard Specification for Cellulosic Fiber Stabilized Thermal Insulation"
- 5.2 16 CFR Part 1209 "Interim Safety Standard for Cellulose Insulation"

6.0 IDENTIFICATION AND MARKINGS:

- 6.1 Packaging of the listed product may contain the manufacturers name and address and the product name. The use of the R&D Services, Inc. (RDS) listing logo (containing the listing number), and the RDS ISO/IEC accreditations are voluntary but will be used in accordance with the listing agreement.

7.0 DESCRIPTION OF LISTING PROGRAM:

- 7.1 Quarterly on-site inspections of procedures and product testing are performed by RDS through visits to the facility. During each inspection the following actions are taken:
 - 7.1.1 Samples of cellulose product are selected for testing referenced in 7.2 and 7.3.
 - 7.1.2 In-house quality control records are reviewed for frequency and consistency
 - 7.1.3 Quality control test equipment is checked for calibration and functionality
- 7.2 Each quarter, RDS conducts the following tests:
 - 7.2.1 Design density - ASTM C739
 - 7.2.2 Critical Radiant Flux - ASTM C1497/E970
 - 7.2.3 Smoldering Combustion - ASTM C1497/C739
 - 7.2.4 pH – ASTM D778
- 7.3 Annually, RDS conducts the following test:
 - 7.3.1 Thermal Resistance – ASTM C1497/C518
 - 7.3.2 Corrosiveness – ASTM C1497/C1149
 - 7.3.3 Fungi Resistance – ASTM C1497/C1338
 - 7.3.4 Water Vapor Sorption – ASTM C1497/C739
 - 7.3.5 Odor Emission – ASTM C1497/C1304

8.0 INSTALLATION:

- 8.1 Product is to be installed in accordance with the manufacturer's published installation instructions by qualified installing personnel.



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9.0 EVALUATED PROPERTIES AND RESULTS:

| PROPERTY | RESULT |
|--|-------------------|
| Per ASTM C1497 | |
| Design Density (lb/ft ³) | 1.38, 1.47, 1.51 |
| Critical radiant flux (W/cm ²) | GREATER THAN 0.12 |
| Smoldering combustion (max %) | LESS THAN 15 |
| Corrosiveness (all metals) | PASS |
| Moisture vapor sorption (%) | LESS THAN 15 |
| Thermal resistivity (°F·ft·h/Btu·in.) | 3.56, 3.62, 3.64 |
| Fungi resistance | NO GROWTH |
| Odor Emission | PASS |

This listing report indicates that R&D Services, Inc. has evaluated this product as described herein, and it is eligible for listing. No other product is covered by this listing. R&D Services, Inc. makes no warranty, expressed or implied, or guarantee regarding the product covered by this listing.