



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

# PRODUCT LISTING

## RDS-LF9312

Issued: January 1, 2025  
Renewal Due: January 1, 2026

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- 1.0 **PRODUCT:** AFT Carbon Smart
  - 2.0 **MANUFACTURER:** Advanced Fiber Technology
  - 3.0 **MANUFACTURING LOCATIONS:** 100 Crossroads Blvd.  
Bucyrus, OH 44820
  - 4.0 **PRODUCT TYPE:** Loose-Fill Cellulose Insulation
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### 5.0 PRODUCTS ARE EVALUATED ACCORDING TO THE FOLLOWING STANDARDS:

- 5.1 ASTM C739 "Standard Specification for Cellulosic Fiber 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 C739/E970
  - 7.2.3 Smoldering Combustion - ASTM C739
  - 7.2.4 pH – ASTM D778
- 7.3 Annually, RDS conducts the following test:
  - 7.3.1 Thermal Resistance – ASTM C739/C518
  - 7.3.2 Corrosiveness – ASTM C739
  - 7.3.3 Fungi Resistance – ASTM C739
  - 7.3.4 Water Vapor Sorption – ASTM C739
  - 7.3.5 Odor Emission – ASTM C739

### 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
<b>Per ASTM C739</b>	
Design Density (lb/ft <sup>3</sup> )	1.92
Critical radiant flux (W/cm <sup>2</sup> )	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.)	3.55
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.*