



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

PRODUCT LISTING

RDS-LF9678

Issued: April 23, 2021, 2021
 Renewal Due: January 1, 2022

- 1.0 **PRODUCT:** Smart Shredz
- 2.0 **MANUFACTURER:** Applegate Fibers South
- 3.0 **MANUFACTURING LOCATIONS:**
 - 645 McIntire Lane, Decatur, AL 35603
 - 288 Bloomfield Road, Springfield, KY 40069
- 4.0 **PRODUCT TYPE:** Loose-Fill Cellulose Insulation

5.0 PRODUCTS ARE EVALUATED ACCORDING TO THE FOLLOWING STANDARDS:

- 5.1 ASTM C739-11 “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 shall contain the manufacturers name and address, the product name, the R&D Services, Inc. (RDS) listing logo (containing the listing number), and the RDS ISO-17020 accreditation identification (AA-712).

7.0 DESCRIPTION OF LISTING PROGRAM:

- 7.1 Quarterly on-site inspections of procedures and product testing are performed by RDS through unannounced 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
Per ASTM C739	
Design Density (lb/ft ³)	1.59
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.)	3.70
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.