Unbeatable, continuous comfort & energy savings year round.

Professionally Installed Cellulose Insulation

When you care enough to create the ultimate barrier between your family and infiltrations from weather and sound.

Quality that lasts a Lifetime

When it comes to insulating a home or commercial building, your choice of insulation should be weighed carefully, because it is a decision that will last the lifetime of the structure.

Advanced Fiber Technology's cellulose insulation is quickly becoming the most recommended choice of contractors and professional installers.

Why? Because when cellulose insulation is installed in all the necessary places such as attics, walls, ceilings, underflooring and crawlspaces, it provides the owner of the structure with superior cost-saving benefits that alternative insulating materials do not.

It also provides a more comfortable, quiet and safe structure.

Each year cellulose insulation continues to gain market acceptance in the US and Canada, resulting in a steady climb in annual sales over the one-quarter billion dollar mark.

A closer look at performance

Continuous Comfort

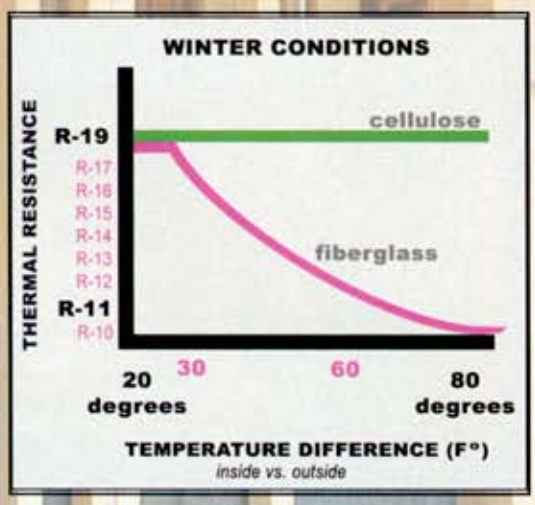
Our insulating product offers continuous comfort on many levels for all types of structures because:

- Cellulose insulation creates a 100% seamless seal and is 36% tighter than a fiberglass
- Cellulose insulation has a higher density than fiberglass
- Cellulose insulation doesn't decline in its stated R-value under temperature ranges

Cellulose insulation fills every space no matter how small, keeping your energy bills and comfort level more consistent when temperatures vary.

The majority of wall cavities within a structure are either irregular in size or contain piping, electrical wiring and other obstructions. This makes it impractical to achieve a perfect fit without compressing batt insulation or making special cuts.

Cellulose insulation uniformly fills all wall cavities creating a continuous barrier from air flow, sound infiltrations and temperature changes.



At the left is a graph showing the results of a study conducted by Oak Ridge National Laboratories which found that cellulose insulation installed in attics maintains its R-value consistency through a wider ranger of changes in temperature than loose-fill fiberglass.

As the temperature difference (inside vs. outside) gets greater, the thermal performance of fiberglass declines by 50 percent while the performance of cellulose remains constant.

A follow-up study by Oak Ridge National Laboratories found that adding a minimum of two inches of cellulose on top of the loose-fill fiberglass corrected the air convection problems and loss of thermal performance.

Installed by Professionals

Whether for new construction or retrofitting purposes, installing cellulose insulation is fast and easy.

IN ATTICS

Dry adhesives are added to the fibers and misted with water to create a stabilized attic insulation.

IN WALLS

High powered hoses spray insulation into wall and attic cavities. It instantly clings to the areas, filling every crevasse. Once all cavities are filled, excess material is scrubbed from the walls, leaving a smooth surface.

The excess insulation is vacuumed and returned to the blowing machine to be recycled.

Unbeatable Safety Built In

Our cellulose insulation can actually withstand the heat of a blowtorch's flame while a penny melts.

Advanced Fiber Technology's cellulose insulation meets or exceeds flame resistance specifications set by all federal, state and local building authorities.

It does not melt like fiberglass does when the temperature exceeds 350 degrees Fahrenheit. Instead, it slows the spread of fire by blocking flames and hot gases while restricting the availability of oxygen in insulated walls and attics.

During the manufacturing process, our cellulose insulation is treated with specially engineered and highly effective fire retardant chemicals. The final result is an invaluable built-in safety feature.

Structures insulated with cellulose insulation have an additional 15 minutes of burn resistance in comparison to those with non-insulated 2x4 wood framed walls or those insulated with conventional fiberglass batts. And in the face of fire, every minute counts.

An Environmentally Friendly Product

Advanced Fiber Technology's cellulose insulation is friendly to the environment because it is a recycled product manufactured from engineered wood fiber obtained primarily from common wastepaper.

By recycling the wastepaper into a valuable, safe and cost-efficient insulation for homes and buildings, Advanced Fiber Technology is helping to reduce landfill waste and lower energy consumption.

When you choose cellulose insulation, you are "*helping the environment by converting recycled wastepaper into tomorrow's products.*"

Annually, over 650,000 tons of wastepaper - which equals over 10 million trees - are recycled into cellulose insulation.

Technical Specifications

Cellulose Insulation

Scope

1.1 This specification provides data related to AFT cellulose insulation. AFT provides resistance to heat flow for thermal applications, noise control for acoustical treatments and fire control in walls and attics of residential and commercial construction.

Materials

2.1 More than 85% of the content by weight of AFT cellulose insulation is processed from recycled wood-based cellulose fibers. These fibers are chemically treated to create fire resistance. The additives are non-toxic, will not irritate normal skin, will not attract vermin or insects, and will not adversely affect other building materials. AFT complies with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1976.

Functions

3.1 AFT insulation resists heat flow by
1.) trapping air within and
2.) between fibers creating significant resistance to air movement.

When applied, AFT cellulose insulation creates a "blanket" filling all spaces, which is impractical to achieve with batt materials.

Material Characteristics

4.1 All cellulose insulation sold in the U.S. must conform to the Consumer Products Safety Commission standards 16 CFR parts 1209 and 460. In addition, AFT meets all of the test requirements of ASTM C-739.

4.1.1 - Density
The density anticipated after long-term settling of dry applications was determined by the following specification: ASTM C-739

4.1.2 - Thermal Resistance
The average thermal resistance per inch was determined by test method:
ASTM C518 (4 inch thick)
3.80 (R-value/inch)

4.1.3 - Surface Burning Characteristics
Two surface burning characteristics are evaluated. They are Critical Radiant Flux using ASTM C-970 and Flame Spread using ASTM E-84. AFT meets or exceeds the requirements for these tests.
ASTM E-970 - Greater than 0.12 watts/cm2
ASTM E-84 - Less than 25

4.1.4 - Smoke Developed Index
ASTM E-84 - Less than 50

4.1.5 - Moisture Vapor Sorption
AFT meets the ASTM C-739 requirement of less than 15% maximum weight gain. Normal relative humidity variations will not adversely affect the insulation.

4.1.6 - Non-Corrosiveness
When in contact with steel, copper, aluminum, or galvanized materials, AFT was determined to be non-corrosive per ASTM C739.

4.1.7 - Other Properties Tested
Additional ASTM C-739 tests passed include: Odor Emission, Smolder Resistance and Fungi Resistance

4.2 - Building Codes
Properly installed AFT cellulose insulation meets the requirements for thermal insulating materials as contained in BOCA, CABO, ICBO, SBCCI, ICC, IEC, IBC, IRC, and the Model Energy Code.
Complies with HH-I-515E.

Advanced Fiber Technology is proud to be a member of

CIMA

ENERGY STAR

4.3 - Fire Blocking
In wall cavities, AFT insulation is permitted as a fire block under Section 717.2.1 of the IBC when installed to a minimum depth of 14.5 inches.

4.4 - Sound Transmission
The installed density of any cellulose insulation creates a noise control "blanket". Effective sound control requires wall and ceiling systems to be air tight including entire perimeter to prevent sound flanking. Refer to Section III of GA-600-2003 Fire Resistance Design Manual (17th Ed.) Insulation materials add 3 to 5 db of noticeable sound resistance to uninsulated walls.

Product Certification

Product certification by an independent third party NVLAP accredited laboratory.

Installation

Installation to follow the Cellulose Insulation Manufacturers Association (CIMA) technical bulletins #2 "Standard Practice for Installing Cellulose Building Insulation", #3 "Standard Practice for the Installation of Sprayed Cellulosic Wall Cavity Insulation", and #5 "Guide for Installation of Cellulosic Fiber Stabilized Thermal Insulation".

Professionally installed cellulose insulation provides:

SUPERIOR COMFORT ALL YEAR LONG

SUPERIOR ACOUSTICS

SUPERIOR ENERGY SAVINGS

SUPERIOR FIRE RATING

FIND IT HERE:
R-ProSelect
209 Cane Creek Road
Fletcher, NC 28732

828.651.9696 ▪ www.mwbrpro.com ▪ GFPRO@aol.com