

# Cel-Pak

## Class 1 Cellulose Insulation

### - SPECIFICATIONS -

National Fiber's Cel-Pak is a high quality, cellulose insulation for dense pack wall and ceiling applications. It is also installed as loose fill in flat attic areas in new construction and retrofit.

**Cel-Pak** is a premium, all-borate cellulose insulation. It is made almost exclusively from over-issue news, which is the highest quality newsprint available. Our paper provides the best quality and fiber length for superior insulation. The quality of this newsprint and the purity and effectiveness of our special, all-borate chemical formulation, carefully blended in our state-of-the-art equipment, provide the optimum density for unsurpassed coverage and performance.

**Cel-Pak's** long, flexible fibers ensure void-free filling of the space to be insulated by sealing around wiring, plumbing, and other obstacles. This reduces air infiltration and results in a less drafty, more comfortable home.

### ADVANTAGES OF CEL-PAK

- Low settled density provides superior coverage,
- Highly efficient thermal barrier (measured in R-value per inch),

*\*R-value means resistance to heat flow. The higher the R-value, the greater the insulating capacity.*

#### R-Value per inch of blown-in insulation

CEL-PAK	3.8
ROCKWOOL	2.9
FIBERGLASS	2.2

- Proven energy savings (conserves energy by reducing fuel consumption),
- Permanent fire resistance, with superior flame retardant qualities,
- Significant sound barrier and moisture control (enhanced by dense fiber structure and naturally hygroscopic properties of the cellulose fiber),
- Non-irritating to the skin, no health problems (contains no formaldehyde, no asbestos, no glass fibers),
- Very clean (minimal dust),
- Highest recycled content of all common insulating materials to help preserve the environment.

**There are other factors to consider.** The amount of insulation you need depends mainly on the climate you live in. In the Northeast, for example, R-38 is recommended for attics. Your energy savings also depend on the type and size of your home, your family size, and your comfort preferences.

# NF

## NATIONAL FIBER

50 DEPOT STREET, BELCHERTOWN, MA 01007 1-800-282-7711

[www.nationalfiber.com](http://www.nationalfiber.com)

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To obtain the level of thermal insulation (R-Value) indicated, this insulation must be installed at the coverage rates shown in the chart below. Initial installed thicknesses were determined using a Krendl 2000 machine with shredder. Settings are not adjustable.

### Average net weight 25 lbs

Net Coverage - Attics - 25 lbs. - Settled Density 1.40 lbs/cu.ft.					
R-Value @75°F	Initial Installed Thickness (in.)	Minimum Settled Thickness (in.)	Bags Per 1000 sq.ft. No joists	Net Coverage sq.ft./Bag No joists	Minimum Weight lb/sq.ft.
13	4.3	3.8	11.7	85.8	0.29
19	5.9	5.3	19.8	50.5	0.50
22	6.8	6.1	24.0	41.6	0.60
30	9.1	8.1	35.4	28.3	0.88
38	11.4	10.2	46.8	21.4	1.17
49	14.5	13.1	62.6	16.0	1.56
60	17.7	16.0	78.4	12.8	1.96
Net Coverage - Sidewalls - 25 lbs. - Settled Density 3.1 lbs/cu.ft.					
13	2 x 4	3.5	36.2	27.6	0.90
20	2 x 6	5.5	56.9	17.6	1.42

### READ THIS BEFORE YOU BUY

**What you should know about R-Values.** The above chart shows the R-Value of this insulation. R means the resistance to heat flow. The higher the R-Value, the greater the insulating power. Compare insulation R-Values of cellulose with other insulating materials before you buy.

To get the indicated R-Value, it is essential that this insulation be installed properly. If you do it yourself, get instructions and follow them carefully. Instructions do not come with this package.



**R & D Services Inc.**  
Classified  
Cel-Pak Cellulose Insulation  
Reference File: RDS-LF9256

This product meets the amended CPSC standard for flame resistance and corrosiveness of cellulose insulation.

Cel-Pak is periodically retested by R & D Services to assure compliance with Federal Specifications. In addition, we maintain a fully equipped on-site laboratory for monitoring product quality on a daily basis.

**CPSP Standard HH-I-515E; 16CFR 1209**

**Meets ASTM C739 Class 1/A Building Material**

Classified in accordance with the following ASTM C 739 characteristics

#### Flammability Characteristics

Critical Radiant Flux Greater than or Equal to 0.12 W/cm<sup>2</sup>  
Smoldering Combustion Less Than or Equal to 15.0%

#### Environmental Characteristics

Corrosiveness Acceptable  
Fungi resistance Acceptable

#### Physical Characteristics

Density (Settled) 1.4 lb/ft<sup>3</sup>  
Thermal Resistance 3.8 R/in. (at 4 in.)  
Moisture Vapor Sorption Acceptable  
Odor Emission Acceptable

#### Physical Characteristics (Sidewall-Dry Application)

Density 3.1 lb/ft<sup>3</sup>  
Thermal Resistance 3.7 R/in. (at 3.5 in.)

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