



ISOLATION • INSULATION



**Product name:** IGLOO Cellulose®

**Technical name:** Loosely packed cellulosic

wood fiber

**State:** Free flowing - wood base

**Color:** Gray

Odor: None

**Dimensional weight:** 1.46 lbs/ft³ - 23.4 kg/m³

#### Chemical composition:

- Newsprint fiber C<sub>6</sub>H<sub>10</sub>O<sub>3</sub>
- Boric acid H<sub>3</sub>BO<sub>3</sub>
- Natural additives for mold, dust, and fire control
- Magnesium sulfate

#### Product registration:

#### **Canadian Construction Materials Centre (CCMC)**

- Technical product sheet / CCMC #08532-L
- Technical product sheet / CCMC #12835-R (Walls)
- CAN / ULC S703-09
- Product is guided by standard ASTM C-739, HHI-515-E and amended CPSC
- VOC Emission certificate
  # 120120 03 (Berkeley Analytical)

**pH:** @25 °C, 2% solution 7.8

**Packaging:** 25 lbs - 11.3kg / bag

## Installation:

- IGLOO Cellulose<sup>®</sup> insulation's high efficiency relies on air between the fibers, obtained when the cellulose expands during installation (whether hand-applied or blown).
- Clear up 1 ft² for every 300 ft² of ceilling of air intake.
- Apply in places where temperature does not exceed 194 °F (90 °C).
- Install 3" or more away from chimneys.
- Wear a respirator at all times.
- For soundproofing, contact an acoustical engineer.
- For wall insulation, apply enough product to achieve at least 3 lbs/ft³ (48 kg/m³) density. (Recomended 360HD lgloo wall cavity system).
- Do not apply on built-in-surface-mounted light fixtures without proper IC protection.

# Technical DataSheet

## Installation Chart (blown-applied over a horizontal surface)

R	Applied Thickness (in)	Thickness After Settling (in)	Surface Mass (lb/ft²)	Coverage per Bag (ft²)
12	3 1/2	3 1/4	0.40	62
20	6	5 3/8	0.65	38
32	9 1/2	8 5/8	1.05	24
40	12	10 3/4	1.30	19

RSI	Applied Thickness (mm)	Thickness After Settling (mm)	Surface Mass (kg/m²)	Coverage per Bag (m²)
2.1	90	82	1.92	5.9
3.5	151	136	3.18	3.55
5.6	242	218	5.10	2,22
7.0	302	272	6.37	1.77

## All testing were made according to CAN/ULC S703-09 Standards in March 2015.

## Thermal Resistance:

- ASTM C 177 and ASTM C 518 tests
- R = 3.71 per inch
- Example : RSI-7 = R-40

## **Surface Combustion Specifications:**

- CAN/ULC-S102.2 tests
- Flame speed rating is lower than 150 (for loosely packed insulation)
- Equivalent : CAN/ULC-S-102 or ASTM E-84
- Equivalent flame spread rater is lower than 25.

#### Permanent Flammability Index:

- ASTM E 970 test
- Surface flammability specifications show flame spread classification of a least 0.12 w/cm<sup>2</sup> Results are determined by electric radiant panel trial (ASTM E 970).

## Resistance to Combustion Without Flame:

- CAN/ULC-S130 test
- Less than 15% mass loss after being exposed to a high temperature.
- Fire will die out once the heat source is removed.

## Apsorption Rate:

 Less than 20% absorption in a environment where humidity is higher than 90%, at 50°C temperature, during 168 hours.

## Corrosiveness:

- ASTM G1-90 test
- Exposed @ 50°C for 28 days No perforation
- Aluminum #3003 BARE No perforation
- Copper #110 CABRA No perforation
- Cold rolled low carbon steel No perforation
- Galvanized steel, 40% zinc No perforation

## Cryptogamic Resistance:

- ASTM C 1338-96 test
- No mold (fungus) had appeared in a culture medium containing fungous spores (95% rH and 28°C temp.) after 28 days.

## Chemical Product Separation:

 Less than 1.5% chemical product separation after agitating at 275 cycles/min for 30 minutes



