Technical DataSheet

ISOLATION • INSULATION

Product name:	IGLOO Cellulose®
Technical name:	Loosely packed cellulosic wood fiber
State:	Free flowing - wood base
Color:	Gray
Odor:	None
Dimensional Weight:	1.49 lbs/ft^3 -- 23.4 kg/m^3
pH:	@25°C, 2% solution 7.8
Packaging:	25 lbs -- 11.3 kg / bag

Chemical Composition:

- Newsprint fiber $C_6H_{10}O_3$
- Boric acid H_3BO_3
- Natural additives for mold, dust and fire control
- Magnesium sulfate

Product Registration:

Canadian Construction Materials Center (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)
- GREENGUARD GOLD Certification

Installation:

- IGLOO Cellulose® insulation high efficiency relies on air between the fibers, obtained when the cellulose expands during installation (whether hand-applied or blown).
- Clear up 1 ft^2 for every 300 ft^2 of ceiling 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 acheive at least 3 lbs/ft^3 (48 kg/m^3) density. (Recommended 360HD Igloo wall cavity system)
- Do not apply on built-in-surface-mounted light fixtures without proper IC protection.

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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	61.0
20	6	5 3/8	0.65	36.6
32	9 1/2	8 5/8	1.05	23.0
40	12	10 3/4	1.30	18.3
50	15	13 3/8	1.69	15.4
60	18	16 1/8	2.05	12.2
RSI	**(mm)**	**(mm)**	**(lb/m²)**	**(m²)**
2.1	91	81	1.92	5.9
3.5	152	136	3.18	3.6
5.6	243	217	5.10	2.2
7.0	304	271	6.37	1.8
8.8	382	341	8.30	1.4
10.6	459	410	10.0	1.1

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 at least 0.12 w/cm³ Result 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
- Aluminium #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 (à 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

igloo CELLULOSE
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