



Technical DataSheet



igloo
CELLULOSE

ISOLATION • INSULATION



Product name: IGL00 Cellulose®

Technical name: Loosely packed cellulosic wood fiber

State: Free flowing - wood base

Color: Gray

Odor: None

Dimensional Weight: 1.6 lbs/ft³ -- 24.9 kg/m³

Chemical Composition:

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

Standards:

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 Certification

pH: @25°C, 2% solution 7.8

Packaging: 25 lbs -- 11.3 kg / bag

Installation:

- IGL00 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 ft² for every 300 ft² 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 achieve at least 3 lbs/ft³ (48 kg/m³) 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/ft ²)	Coverage per Bag (ft ²)	Bags used (no joist) (per 1000 ft ²)
10	2.98	2.69	0.40	62.8	15.9
12	3.58	3.23	0.48	52.4	19.1
20	5.97	5.38	0.80	31.4	31.8
30	8.95	8.06	1.19	20.9	47.7
32	9.55	8.60	1.27	19.6	50.9
40	11.94	10.75	1.59	15.7	63.7
50	15.46	13.44	2.19	11.4	87.6
60	19.35	16.13	2.74	9.1	109.7

RSI	(mm)	(mm)	(lb/m ²)	(m ²)	(per 100 m ²)
1.7	76	68	1.90	5.8	17.1
2.1	91	82	2.30	4.9	20.6
3.5	152	137	3.90	2.9	34.3
5.3	227	205	5.90	1.9	51.4
5.6	243	218	6.30	1.8	54.8
7.0	303	273	7.50	1.5	68.5
8.8	393	341	10.30	1.1	94.3
10.6	492	410	14.10	0.8	118.1

IMPORTANT NOTE: The chart is based for a standard settling of 12%.

It should be considered that probably for a thickness of more than 12" (factor R-40) the settling factor can vary from 12%, up to 20%.

Thermal Resistance:

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

Apsorption Rate:

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

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

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

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).

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.

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.

Chemical Product Separation

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



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