

TECHNICAL DATA

BENOTHERM

Thermal and Acoustical Insulation

GENERAL DESCRIPTION

BENO-THERM is a cellulose fiber loose fill thermal and acoustical insulation suitable for indoor use in building construction within the temperature range of -60° to 90° Celsius.

This insulation material is suitable for pouring by hand or for blowing through specially designed equipment.

PARTICULARITY

BENO-THERM meets the CAN/ULC-S703 standards and has demonstrated in laboratory tests its exceptional flame resisting properties and has also proven to be a non irritant product.

TESTS PROCEDURE

BENO-THERM insulation has been tested as per the following tests and procedure of the norms ASTM and CAN/ULC:

Moisture absorption

BENO-THERM is in accordance with the CAN/ULC-S703 section 5.2.5 norm. When the insulation material is tested, the moisture vapour gain resulting from exposure to high humidity and temperature shall not be more than 20% by weight.

Corrosiveness

BENO-THERM is in accordance with the corrosion test on copper, aluminum and steel, of the CAN/ULC-S703 section 5.2.6 norm.

Fungi resistance

BENO-THERM is in accordance with the fungi resistance. No formation of fungus as per the ASTM C1338 norm.

Separation of chemicals

When the insulation material is tested in the 5.2.8 section of the CAN/ULC S703 norm, the separation of non-cellulosic components shall not exceed 1.5% by weight.

BENOLEC

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PHYSICAL PROPERTIES

Cellulose	85 %
Chemical loading	15 %
Applied density	1.28 lbs./cu. ft.
Design density (Attic)	1.6 lbs./ cu. ft.
(Walls)	3.0 lbs./cu. ft.
(Floors)	2.5 lbs./cu. ft.
Thermal Resistance	3.8 R / inch.
Odor emission	No unpleasant odor (ASTM C 739-80)

Flame (spread) CAN/ULC-S102 Standard
BENO-THERM, as per CAN/ULC-S703 standard
"Standard for Spray Applied Cellulosic Fiber ",
qualifies as type 2 "acoustical and thermal application ",
and as class A "flame spread" < 25.
As per Warnock Hersey 490-0112-B112 test in
accordance to CAN/ULC-S102 standard
Flame spread classification : 20

Flame (spread) CAN/ULC-S102.2 Standard
Flame spread report of test executed on
BENO-THERM cellulose thermal insulation
is conform to CAN/ULC-S102.2 standard
"flame spread" < 150 .
ITS Service Test Intertek report 193-7095 sept. 97
Flame spread classification : 70
Smoke developed : 4

Revised january 2013

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REFERENCES

ASTM

ASTM B152 Specification for Copper Sheet, Strip, Plate and Rolled Bar

ASTM C177 Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate

ASTM C518 Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Heat Flow Meter

ASTM C1338 Standard Test Method for Determining Fungi Resistance of Insulation Materials and Facings

ASTM G1 Practice for Preparing, Cleaning, and Evaluating Corrosion Test Specimens

ASTM C739 Cellulose Fiber (Wood-Base) Loose-Fill Thermal Insulation

CAN/ULC

CAN/ULC-S102 Standard Method of Test for Surface Burning Characteristics of Building Materials.

CAN/ULC-S102.2 Standard Method of Test for Surface Burning Characteristics of flooring, Floor Covering and Miscellaneous Material and Assemblies.

CAN/ULC-S130 Standard method of test for ignition resistance of loose fill Insulation.

CAN/ULC 703 Standard for Cellulose Fibre Insulation (CFI) For Buildings.

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