



Test Data Relevant to Insulating New Concrete Masonry Walls

Thermal Resistance - ASTM C-518-10 (FTC Rule 460 mandates disclosure @ 75°F mean temperature)

- R-4.6/inch @ 75°F mean temperature (per FTC Rule 460)
- R-5.0/inch @ 25°F mean temperature

Surface Burning Characteristics - ASTM E-84-10

- Class A: IBC Section 2603 requires only Class B for foam plastic insulation encased in concrete.
- Flame Spread : ≤ 25 (Class B requires ≤ 75)
- Smoke Developed: ≤ 450 or less (Class B requires ≤ 450)

Fire-Resistance Ratings - CfiFOAM Masonry Foam Insulation, like all aminoplast masonry foam products, neither adds to nor detracts from the fire-resistance ratings of CMU walls. Sustained contact with surfaces above their 190°F service temperatures result in shrinkage, charring and loss of functionality.

Dimensional Stability - Internal Ongoing Evaluations

- Enclosed Cavities: $\leq 0.5\%$
- Opened Cavities: $\leq 1.0\%$

Potential Heat - NFPA 259 / ASTM D-5865

- < 80 Btu/lb.

Accelerated Aging - ASTM C-1029 (D2126)

- 70°C - 97% Relative Humidity - Passed
- -40°C - Ambient Relative Humidity - Passed

VOC Odor

- Zero - None Detected

Foam Density - ASTM D-1622

- 0.7-1.8 lbs./ft³ - Typically 0.8 lbs./ft³

Resorcinol Content

- None

Compressive Strength - ASTM D-1621 @ 0.95" thick

- 4.50 lbs./in² = 650 lbs./ft²

Water Vapor Transmission

- 10.60 perms per ASTM E-96-05
- 16.36 Average Perm
- 17.32 Average Perm per Inch

Formaldehyde Emissions - ASTM D-5116

- ≤ 16 ppb @ 28-days

Open Cell Content

- 40% by Volume

Resistance to Mold Growth - May contain EPA listed antifungal additives including MOLD-CARE™

- Passed per ASTM C-1338-08

Shelf Life

- Blended Foam Components - 30 to 45 days for optimum results.
- Unblended Foam Components - Up to 1 year when stored in unopened packaging.

Note: Test Data Sheets for InsulSmart® and InsulSmart MH® that are relevant to retrofit and non-masonry applications of aminoplast foam insulation by CfiFOAM, Inc. are available from www.cfifoam.com and from authorized CfiFOAM foam installers.