**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: \( \leq 25 \) (Class B requires \( \leq 75 \))
- Smoke Developed: \( \leq 450 \) or less (Class B requires \( \leq 450 \))

**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: \( \leq 1.0\% \)

**Accelerated Aging** - ASTM C-1029 (D2126)
- 70°C - 97% Relative Humidity - Passed
- -40°C - Ambient Relative Humidity - Passed

**Foam Density** - ASTM D-1622
- 0.7-1.8 lbs./ft\(^3\) - Typically 0.8 lbs./ft\(^3\)

**Compressive Strength** - ASTM D-1621 @ 0.95" thick
- 4.50 lbs./in\(^2\) = 650 lbs./ft\(^2\)

**Formaldehyde Emissions** - ASTM D-5116
- \( \leq 16 \) ppb @ 28-days

**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.

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**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.

CfiFOAM, Inc. • P. O. Box 10393 • Knoxville TN 37939 • Phone: (865) 588-4465 • Fax: (865) 588-6607 • www.cfifoam.com