

**CITY OF NEW YORK
DEPARTMENT OF BUILDINGS**

Pursuant to Administrative Code Section 27-131, the following equipment or material has been found acceptable for use in accordance with the Report of Materials and Equipment Acceptance (MEA) Division.

Patricia J. Lancaster, F.A.I.A., Commissioner
MEA 171-04-M

Report of Material and Equipment Acceptance Division

Manufacturer – Aeroflex USA, Inc., 9051 Executive Park Drive, Suite 400, Knoxville.

Trade Name(s) – Aerocel.

Product - Closed Cell EPDM Elastomeric Thermal Insulation for pipe insulation.

Pertinent Code Section(s) -27-811.

Prescribed Test(s) – RS 14-11 (ASTM E84).

Laboratory – SGS U.S. Testing Company, Inc.

Test Report(s) – Test Report No. 155892-4 dated October 9, 2001.

Description – Aerocel tube and sheet insulate prevents condensation when used in operating temperatures – 70°F up to 257°F. The material is made from selected high molecular weight EPDM synthetic elastomers, has low density and closed cell structure. Stable low K factor of 0.25 – 0.27 (at 50-90°F mean temperature), contains Aluminum Tri-Hydrate as a flame retardant, which releases water (H₂O) upon heating at 572°F. Aerocel is classified as non-polar material, which highly water-resistant.

Sample ID	Flame Spread	Smoke Density
Aerocel 1" sheet	20	50

Recommendation - That the above material be accepted for use as pipe insulation material with a flame spread rating not exceeding 25 (maximum) and smoke developed rating of not exceeding 50 (maximum), when assembled as indicated in the instructions supplied by the manufacturer, provided the temperature of the outer surface of the insulation does not exceed 60 degrees Fahrenheit above the ambient temperature. All coverings, vapor barriers and adhesives applied on or over the insulation shall have a flame spread rating no higher than 25 and a smoke developed rating no higher than 50. All shipments and deliveries of the materials comprising this assembly shall be accompanied by a certificate or label certifying that the materials shipped or delivered are equivalent to those tested and acceptable for use, as provided for in Section 27-131 of the Building Code.

Final Acceptance June 21/04
Examined by S. Darkhoda