

# MATERIAL SAFETY DATA SHEET

## Aeroflex / Aerocel - SSPT Insulation

Prepared 12/04

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Manufactured in Sweetwater, TN  
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### I. PRODUCT IDENTIFICATION

Name: Aerocel – EPDM Closed Cell Elastomeric Thermal Insulation tube and sheet.

### II. CHEMICAL NAME

Ethylene-Propylene-Terpolymer Rubber blended compound

### III. PRODUCT CONTENT

This product is classified as an "article" according to title 29 of the Code of Federal Regulations, OSHA Part 29 CFR. 1200c. They are formed to a specific Shape or design during manufacture, has end use functions dependent upon their shape and design, and does not release any hazardous chemical under normal conditions of use.

### IV. COMPOSITION / INFORMATION ON INGREDIENTS

Ethylene-Propylene-Terpolymer  
Formal Name: EPT / EPDM  
Chemical Family: Synthetic Rubber  
Chemical Formula: (C<sub>2</sub> H<sub>4</sub>)<sub>x</sub> (C<sub>3</sub> H<sub>7</sub>)<sub>y</sub> (Diene)<sub>z</sub>  
An appropriate container for reuse or disposal  
CAS No.: 25038-36-2

Aluminum Tryhydrate  
Chemical Name: Aluminum  
Tryhydrate/Aluminum Hydroxide  
Formal Name: Aluminum Oxide Trihydrate  
Chemical Formula: Al (O H)<sub>3</sub>  
CAS No.: 21645-51-2

Carbon Black  
Chemical Name: Carbon black  
Formal Name: Furnace Black  
Chemical Family: High – Purity Colloidal  
Carbon  
Chemical Formula: C  
CAS No. 1333-86-4

### V. HEALTH HAZARD COMPONENTS

Elastomeric Thermal Insulation is an expanded, closed cell, cross-linked rubber compound. The rubber tape is a rubber type compound. They contain synthetic polymers, fillers, plasticizers and rubber chemicals. Since all of these materials are bound in a polymer matrix, this product does not qualify as a hazardous material as defined by OSHA > (29 CFR 1910.1200)

### VI. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Expanded rubber foam with self-sealing tape and protective rubber tape. Specific Gravity: (H<sub>2</sub>O=1); 0.04-1.09  
Temperature Range: (C): 0.037 W/m.k. at 24 degrees C  
Thermal Conductivity (W/m.k.): 0.036 at mean temp 0  
Water Absorption: (% by weight): 5% by weight  
Water Vapor Permeability: 0.10 Perm-inch (0.15x10<sup>-12</sup>Kg/Pasm)  
Temperature Range: -57 to 125 C (-70 to 254 F)  
Flammability: Self Extinguishing  
Solubility in Water: Insoluble

### VII. FIRE FIGHTING MEASURES

Extinguishing Media: Carbon Dioxide, ABC dry chemical, water spray and foam. Specific hazards with regard to fire fighting measures: Approach from upwind side. Avoid breathing smoke, fumes, or vapors on the downwind side. Firefighters wear protective clothing, especially eye protection and self contained breathing apparatus. Hazardous Combustion Products: May generate Carbon Monoxide, Carbon Dioxide, low molecular weight alcohols, aldehydes and acids.

### VIII. SPILL OR LEAK PROCEDURES

Steps to be taken if material is released or spilled: N/A. Waste disposal method: Dispose of container and any unused contents in accordance with Federal, State and Local Waste Disposal regulations.

### IX. HAZARDOUS IDENTIFICATIONS Health Hazards

Inhalation: No significant signs of any adverse health hazards are expected to occur as a result of inhalation exposure.

Eye Contact: No significant signs of any adverse health hazards are expected to occur as a result of eye contact.  
Skin Contact: No significant signs of any adverse health hazards are expected to occur as a result of skin contact.  
Ingestion: Practically non-toxic.

### X. FIRST AID MEASURES

Inhalation: Not required under normal use. If irritation persists, remove from exposed area.  
Eye Contact: Not required under normal use. Flush with water until all traces of this material are gone. Seek medical attention if irritation persists.  
Skin Contact: Not required under normal use.  
Ingestion: If illness or adverse symptoms develop, obtain medical attention.

### XI. DISPOSAL CONSIDERATION

Waste material may be disposed of in an approved landfill or may be incinerated under conditions which meet Federal, State, and Local environmental regulations.

### XII. OTHER INFORMATION

The information supplied herein is related to material specified and may not be valid if used in combination with other materials or processes. Further, the information contained here is believed to be reliable and based on correct state of our knowledge; however, no guarantees of any kind can be given as to its accuracy.