Thermablok® Thermal Aerogel Insulation

Health & Safety Extract

- Aerogels are classified as ***amorphous*** *silica*
- Aspen's silica supply is 100% synthetic, not mined, so there is zero crystalline silica content
- Amorphous silica is used in many consumer goods such as toothpaste and cosmetics
- Aerogels are *nanoporous*, not *nanoparticulate*
- Workplace monitoring indicates that OSHA would consider this a "nuisance dust" with the following personal exposure limits (PEL):
  - Inhalable particles (>10 μm) → 15 mg/m³
  - Respirable particles (<10 μm) → 5 mg/m³

EPA Health Conclusions

- "Silica, amorphous, fumed (crystalline free) has a demonstrated lack of toxicity"
- "Is not expected to pose a carcinogenic risk."
- "Silicas are inert when ingested, and unlikely to be absorbed through the skin."
- "There should be no concerns for human health, whether the exposure is acute, subchronic, or chronic by any route."

Aerogels are comprised of ***amorphous*** silica

Aerogels contain zero ***crystalline*** silica

Thermablok Aerogel - High Performance Insulation for Building Envelopes

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Concerns around dust exposure are common to most industrial insulation materials. Proper dust control and PPE will ensure a safe working environment.