



Product Used

Pyrogel® 2250

Fabrication Partner

Dekoron/Unitherm
(www.unithermcc.com)

Tubing Bundles 33% Smaller and 30% Lighter With Aerogel Insulation

Aerogel provides equal thermal protection as fibrous glass insulation

Challenges

- Provide new insulation solution for Dekoron/Unitherm's Integrity Series Electric Traced Tubing Bundle for Mercury Gas Analyzers.
- Reduce diameter and weight of existing tubing bundle insulated with fibrous glass thermal insulation.
- Ensure no loss of thermal protection for heated tubes inside bundle.

Aerogel Solution

- Aspen Aerogels developed a solution of **Pyrogel® 2250** flexible blanket insulation.
- The Pyrogel 2250 could be applied to the tubing bundles using conventional equipment and processes.

Benefits

- The Pyrogel 2250 insulation solution reduced the diameter of the tubing bundle 33% and its weight 30% (compared to the same bundle insulated with fibrous glass thermal insulation).
- The lighter weight and smaller package reduced the overall cost of ownership by reducing the cost of the mounting infrastructure, simplifying routing, and speeding up installation.
- Pyrogel is water resistant.

