



Foamfrax™ High Temperature Insulation Installation Case Study #2

High Temperature Insulation For Batch Annealing Furnace Low Mass Car

*Foamfrax Grade II High Temperature Insulation
10" (250mm) Thick, 8pcf (128 kg/m³), Gunned Car-Bottom Insulation*

Industry: Metals Processing
Location: NE United States
Installation Date: November 2000
Operating Temperature: 2300°F (1260°C)

More Information

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Refractory ceramic fiber high temperature insulation enables implementation of low mass designs in furnace car-bottoms, thereby offering significant fuel savings. The low heat loss and heat storage properties of Foamfrax High Temperature Insulation make it an ideal material in this application. Due to the support piers on these furnace cars, installation of either refractory ceramic fiber blanket or insulation modules can require extensive field cutting during installation.

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www.fyrewrap.com

www.fiberfrax.com

www.isofrax.com

www.insulfrax.com

www.high-temperature-insulation.com

www.refractory-ceramic-fiber.com



Foamfrax High Temperature Insulation is a gunnable, monolithic, thermally insulating material, that contains Fiberfrax refractory ceramic fiber as a major constituent.

The gunning installation process for Foamfrax High Temperature Insulation allows simple and rapid placement of the insulation material in and around the support piers in an efficient manner.

Note that for a successful Foamfrax installation in this application, the entire car perimeter must be lined with either hard refractory or refractory ceramic fiber insulation modules.



The Foamfrax High Temperature Insulation was gunned into the car body tightly around the support piers and against the castable refractory perimeter.

After gunning into place, a wet trowel was used to work the Foamfrax insulation around the support piers and smooth the surface of the car deck.

The result was a monolithic, energy efficient high temperature insulation system, which was installed very efficiently. This allowed the customer to return the furnace to service quickly.

Following the installation of Foamfrax High Temperature Insulation, the following customer benefits were realized:

- **Turnkey Service** - A specially trained Unifrax distributor/contractor was able to supply Foamfrax High Temperature Insulation materials, equipment, and installation as a complete package.
- **Fuel Efficiency** - Due to the low heat loss and heat storage properties of the refractory ceramic fiber used in Foamfrax High Temperature Insulation, fuel efficiency was improved significantly.
- **Installation Speed** - This Foamfrax project was installed in 2 hours, from start to finish, compared to a full day of installation using other high temperature insulation product types.

Foamfrax™ High Temperature Insulation is a registered product of Unifrax I, LLC

Unifrax I, LLC provides a wide range of woven and non-woven products for high temperature insulation, sealing and filtering applications

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