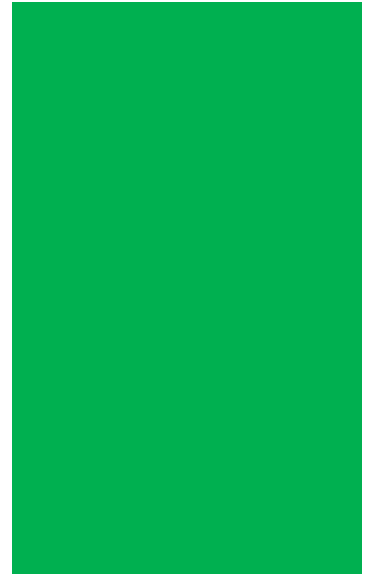


UNIFRAX ENGINEERED THERMAL COMPONENTS APPLICATION STORY



Product Solution: Thermfrax® Engineered Thermal Components – using Insulfrax® Low Bio-persistent Fiber
Application: Appliance, OEM Fryer Insulation
Location: North America

November 2019

Business Challenge

A cooking appliance manufacturer collaborated with our Unifrax team to design an engineered solution utilizing our high temperature insulation in a commercial fryer. Previously the customer was using a mineral fiber insulation which required an additional heating cycle to remove organics from the unit prior to shipping.

Application

This application required an insulating material to protect the motor housing, wiring and peripheral equipment of the appliance from the heat generated in the fryer. The original insulation design was composed of 27 flat shapes per unit. This complex design required the manufacturer to manage high inventory levels of the various shapes, which occupied valuable warehouse space. In addition, the original design was difficult and time consuming to assemble.



Figure 1 Unifrax Engineered Thermal Component

UNIFRAX APPLICATION STORY

“ . . . we reduced the complex 27 piece assembly to a total of three shapes . . . ”

The Solution

Unifrax provided an engineered solution for this application based on our Insulfrax® inorganic low bio-persistent insulation which does not require a heating cycle to remove the binders. In addition to addressing the outgassing issues, we also reduced the complex 27 piece assembly to a total of three shapes that were die cut to the finished dimensions.

From an operations perspective, Unifrax addressed the customer's thermal challenge and concerns by:

- Increasing assembly efficiencies
- Decreasing inventory levels
- Providing additional floor space for other product lines.



Figure 2 Unifrax Engineered Thermal Components for commercial fryer insulation.

About Unifrax

Unifrax is a global leader in high-performance specialty products used by many industries in a diverse group of industrial applications. Our products provide substantial improvement in thermal performance, save thousands of dollars in energy costs and can help reduce your operations environmental footprint.

Contact Us

To learn more about Unifrax Engineered Thermal Components, contact your Unifrax sales representative or the Unifrax Application Engineering Group in your region:

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