CHIZ BROS



# **Product Information Sheet**

# Insulfrax<sup>®</sup> Anchor-Loc<sup>®</sup><sub>2</sub> 1100°C Modules

## Introduction

Insulfrax<sup>®</sup> Anchor-Loc<sup>®</sup><sub>2</sub> 1100°C modules extend the successful performance of standard Anchor-Loc folded modules to a product form featuring laminated Insulfrax S low bio-persistent (LBP) blanket construction. This product combines advancements in fiber chemistry, manufacturing technology, and attachment hardware design to provide an economical lining system for a wide range of heat processing vessels.

The Fibermass<sup>®</sup> manufacturing technique used to fabricate Anchor-Loc<sub>2</sub> 1100°C modules bonds layers of Insulfrax S blanket into a strong, pliable fiber block. Spun Insulfrax S blankets which feature high tensile strength for improved resistance to mechanical abuse, vibration, and gas velocity are used in the construction of Anchor-Loc<sub>2</sub> 1100°C modules.

### Weld-Loc®<sub>2</sub> 1100°C Modules

The Weld-Loc attachment system is engineered for maximum design flexibility and high installation rates.

During installation, the special Weld-Loc stud assembly is fused to the furnace casing and a hex nut is torqued on the weld stud, drawing the module to the casing plate.

Advantages which are offered by the Weld-Loc attachment system include:

- · High installation speed
- · Ease and simplicity of installation
- · Random placement of modules on the casing
- · Positive torque test of the weld



#### Thread Loc<sup>®</sup><sub>2</sub> 1100°C Modules

To meet customer specifications or the special design requirements of furnace builders, refineries or petrochemical plants, Anchor-Loc<sub>2</sub> 1100°C modules are available with the prewelded Thread Loc<sup>®</sup><sub>2</sub> attachment system.

The Thread Loc<sub>2</sub> attachment system features a fully threaded weld stud and nut to permit block installation on a pre-engineered stud pattern. The Thread Loc<sub>2</sub> attachment system for Anchor-Loc<sub>2</sub> 1100°C modules offers several advantages:

- Compatibility with mastic coatings, backup insulation, and foil vapor barriers.
- Module design compensates for variations in stud placement.
- Access to the welded fastener for full testing before the module is installed.

## Available Insulfrax Anchor-Loc<sub>2</sub> 1100°C Modules

305 mm x 416 mm (12" x 16"), 305 mm x 305 mm (12" x 12")

| Module Type      | Temperature<br>Grade <sup>1</sup> | Recommended<br>Operating<br>Temperature<br>Limit <sup>2</sup> | Construction                     | Module Density                            |
|------------------|-----------------------------------|---|----------------------------------|---|
| Insulfrax 1100°C | 1260°C<br>(2300°F)                | 1100°C<br>(2012°F)  | Edgegrain<br>Insulfrax S Blanket | 128kg/m³<br>(8pcf)<br>160kg/m³<br>(10pcf) |

<sup>1</sup>Temperature Grade based on European Norm (EN 1094).

<sup>2</sup> The recommended operating temperature of Insulfrax products is determined by irreversible linear change criteria, not melting point.

Refer to the product Safety Data Sheet (SDS) for recommended work practices and other product safety information.

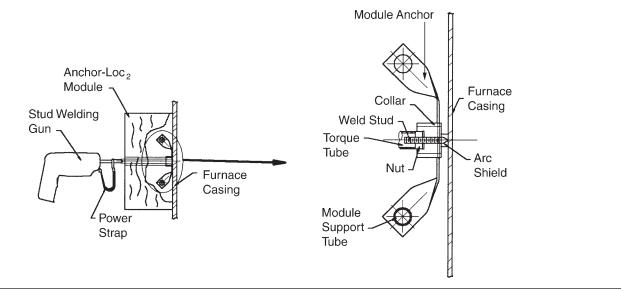


# **Chemical Composition**

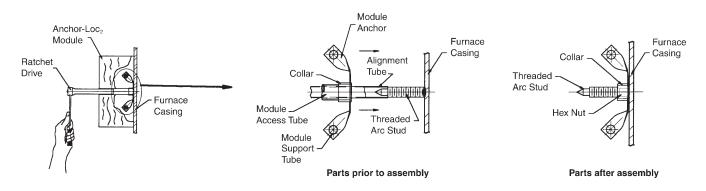
| Chemical Comp | osition (%)      |          |  |
|---------------|------------------|----------|--|
|               | SiO <sub>2</sub> | 61 to 67 |  |
|               | CaO              | 27 to 33 |  |
|               | MgO              | 2 to 7   |  |
|               | Other            | <1       |  |
|               |                  |          |  |

# **Available Attachment Option**

### A. Weld-Loc®2 Attachment System



### B. Thread Loc®<sub>2</sub> Attachment System



For additional information about product performance or to identify the recommended product for your application, please contact the Unifrax Application Engineering Group at 716-768-6460.

Data are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes.

Form C-1464 Effective 8/15 © 2015 Unifrax I LLC All Rights Reserved Printed in USA Page 2 of 2

The following are registered trademarks of Unifrax: Anchor-Loc, Fibermass, Insulfrax, Thread Loc, Weld-Loc.

The test data shown are average results of tests conducted under standard procedures and are subject to variation. Results should not be used for specification purposes.

Product Information Sheets are periodically updated by Unifrax. Before relying on any data or other information in this Product Information Sheet, you should confirm that it is still current and has not been superseded. A Product Information Sheet that has been superseded may contain incorrect, obsolete and/or irrelevant data and other information.



#### Unifrax I LLC Corporate Headquarters 600 Riverwalk Parkway Suite 120 Tonawanda, NY 14150 Telephone: 716-768-6500 Internet: www.unifrax.com Email: info@unifrax.com