

## MONOLANE - HIGH TEMPERATURE FIBRE LINING

### PRODUCT DATA

**Monolane** (Monolithic Ceramic Fibre Module) is Unifrax India Ltd's unique system for applications involving high temperatures. Monolane system is cost effective compared to other fibrous systems available for operating temperatures above 1300°C. The system is made up of **Monolane** Blanket, **Monolane** Solution, and **Monolane** Anchoring. Monolane system provides high density and high compression fibre lining with very low hot face shrinkage even at temperatures above 1400°C.



### FEATURES

- A novel “wet process” system using special **MONOLANE** spun blanket, **MONOLANE** solution and **MONOLANE** anchors.
- A system which yields uniform high density – in excess of 192 kg/m<sup>3</sup> and more than 50% uniform compression.
- A monolithic, joints-free fibre system designed to have ultra-low shrinkage at operating temperatures exceeding 1400 °C.

### APPLICATION

Application includes tough environments found in Steel & Iron, Forging, CPI and Ceramic Industries.

- Steel & Iron– Ladle Covers & Pre-Heaters, Soaking Pit Covers, Reheat & Non-ox Furnaces etc
- Forging – furnace doors, walls and roof
- Ceramic – low mass kiln cars, Kiln doors, walls and roof
- Chemical Processing Industry (CPI) – Cracker & Reformer Radiant section Lining

<b>DENSITY</b> (Dry Basis)	<b>COMPRESSION</b>	<b>LINEAR SHRINKAGE</b> (24 hr. @ 1500 °C)
192 Kg/M <sup>3</sup> (Uniform throughout)	50% Plus (Uniform throughout)	Across the grain : 0.4 % Along the grain : 1.7 %

<b>THERMAL CONDUCTIVITY</b> w/m <sup>0</sup> k (btu in./hr/ft <sup>2</sup> /°F)	<b>Mean Temp.(°C)</b>	<b>“K” Value</b>
	600	0.12 (0.83)
	800	0.17 (1.18)
	1000	0.21 (1.40)

- Test data shown are based on average results of controlled test and are subject to normal variation
- Above typical as installed density and compression values can vary depending on the installation procedure followed at site

Information contained in this publication is for illustrative purposes only and is not intended to create any contractual obligation.

## Unifrax India Limited,

**Mumbai Office :** 402, Kailash Tower, Behind STC Colony, Andheri East,  
Mumbai - 400 069. Phone : 91 22 2682 3479 / 2682 3256 / 2682 1505  
Fax : 91 22 2682 0005 • E mail : [unifrax.mumbai@unifrax.co.in](mailto:unifrax.mumbai@unifrax.co.in)  
Website : [www.unifrax.com](http://www.unifrax.com)

**Chennai Office :** New No. 58, Velacherry Road,  
Little Mount, Saidapet, Chennai - 600015  
Phone : 91 44 22353171 • Fax : 91 44 22352352  
E mail : [unifrax.chennai@unifrax.co.in](mailto:unifrax.chennai@unifrax.co.in)

**Delhi Office :** 1603, Chiranjiv Tower, 43, Nehru Place,  
New Delhi - 110019 • Phone : 91 11 26440881 / 65651065  
Fax : 91 11 26440879 • E mail : [unifrax.delhi@unifrax.co.in](mailto:unifrax.delhi@unifrax.co.in)

**Kolkata Office :** 5, Lala Lajpat Rai Sarani (Elgin Road)  
Gujarat Centre, 4th Floor, Kolkata - 700020  
Phone : 91 33 30580169 / 70 / 71 / 72 / 73  
Fax : 91 33 30580170 / 22809138 • E mail : [unifrax@vsnl.com](mailto:unifrax@vsnl.com)