## **Product Information Sheet**

# **Fiberfrax**<sup>®</sup>

### Silplate® 1308

#### DESCRIPTION

SILPLATE® is a structural insulation board wit h revolutionary characteristics. It is a unique product currently offered in by Alkegen that is able to withstand high temperatures under high compressive strength, while maintaining its low thermal conductivity.

SILPLATE®'s physical properties do not change, even under the highest work temperatures, assuring great stability to the whole lining system. Utilizing a SILPLATE® lining results in a reduction in shell case temperature, a reduction of joint attacks in the working lining bricks, higher operational safety, and significant energy savings, while increasing the volume of the ladle.

#### **CHEMICAL PROPERTIES**

SILPLATE® boards boast excellent chemical resistance properties when exposed to attack from most acids and corrosion agents, except hydrofluoric, phosphoric, hydrochloric, and sulphuric acids and concentrated alkalis. Made with high purity materials, SILPLATE® has a very low percentage of Fe<sub>2</sub>O<sub>3</sub>, which allows flexibility in an oxidizing or reducing atmospheres.

#### MAIN ADVANTAGES

- High thermal resistance / mechanical
- · Low thermal conductivity
- · Dimensional stability

#### MAIN APPLICATIONS

- Ladles and Torpedo Cars
- Trough runners and Tundish
- Insulation of Electric Arc Furnaces



#### PHYSICAL PROPERTIES

Silplate 1308		
Color		Green
Operation Temperature		1340°C
Basic Composition		Alumina & Silica
Density		750/850kg/m <sup>3</sup>
Thermal Conductivity W/ mh°C		
Temperature	25°C	0,148
Temperature	356°C	0,159
Temperature	617°C	0,182
Temperature	773°C	0,210
Flexural Strength Kg/cm <sup>2</sup>		27,2
Hot Crushing Strength- MPa		32,0
(R100-Ceran Method) @500 °C		
Linear Shrinkage		<3,00
Soaking regime @ 1400°C Tem		
LOI - Iron Oxide		< 0,5

Note: All product data is nominal and does not represent a specification. All data and statements concerning these products may be considered as being indicative of representative properties and characteristics obtainable. We make no warranty, expressed or implied, concerning actual use or results because of industry specific influences.

#### Alkegen

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