

## ■ CERAMIC FIBER MODULE

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Luyangwool® ceramic fiber modules are made from compressed ceramic fiber blanket. These modules are specially designed to meet or improve the thermal insulation requirements of industrial furnaces in some special thermal conditions. Luyangwool® ceramic fiber modules are produced with various anchoring systems to enable quick, easy and efficient installation in most furnace linings. Modules have the reliable thermal maintenance and long time treatment. Module linings prevent heat loss, increasing the furnace productivity and reducing maintenance costs.



Anchors available- S304,S310

### ■ Features

- Fast and easy installation
- Lower heat storage and fuel costs
- Fast temperature cycling
- Easy repair and low insulation costs

### ■ Typical Applications

- Boiler insulation
- Stack linings
- Refining and Petrochemical
- Ethylene furnace roof and walls
- Pyrolysis furnace lining
- Reformer furnace roof and walls

### Typical Parameters

Description	STD Module	HP Module	HZ Module
<b>Chemical Composition (%)</b>			
Al <sub>2</sub> O <sub>3</sub>	≥44	≥45	≥34
SiO <sub>2</sub>	≥52	≥54	≥50
Fe <sub>2</sub> O <sub>3</sub> +TiO <sub>2</sub>	≤1	≤0.5	≤0.5
ZrO <sub>2</sub>	-	-	≥15
K <sub>2</sub> O+Na <sub>2</sub> O+Fe <sub>2</sub> O <sub>3</sub>	≤1	≤0.2	≤0.2
<b>Physical Properties</b>			
Density (kg/m <sup>3</sup> ) avg	220	220	220
Classification Temperature (°C)	1260	1260	1430
Linear Shrinkage after heating (%)	1000 °C*24h ≤2.5	1100 °C*24h ≤2.5	1200 °C*24h ≤3.5
<b>Thermal Conductivity (W/m.k)</b>			
400 °C	0.090	0.101	0.118
500 °C	0.119	0.12	0.149
600 °C	0.152	0.175	0.172

The data shown are average results of tests under standard procedures and are subject to variation. Results should not be used for specification purposes or creating any contractual obligation. For more information on the safety application or materials, please refer to the work practices and material safety data sheet.