

# CARBOLANNE

INSULATION TECHNOLOGY

**CERAMIC FIBER MODULES**



## DESCRIPTION

Ceramic Fiber Module are manufactured from ceramic fiber blanket to provide two standard construction forms, stacked or folded. These prefabricated anchored modules are specifically designed to meet the thermal insulation requirements of industrial furnaces, kilns and heaters.





## FEATURES

- Low thermal conductivity & heat storage
- High temperature stability
- Resistance to thermal shock & chemical attack
- To be secured by concealed anchor
- Resistance to gas flow erosion
- Quickly heat up and cool down
- Flexible and easy to cut or install
- Make up the shrinkage of fiber furnace lining to improve heat insulation
- Lightweight & Asbestos free.

## TYPICAL APPLICATION

- Insulation of furnace lining in petrochemical industry (Heating, Reformer, Cracking Furnace)
- Insulation of furnace lining in metallurgy industry
- Insulation of furnace lining in ceramics (Shuttle kilns, Tunnel kilns)
- Insulating of furnace lining in glass industry
- Insulation of furnace lining for heat treatment furnace in heat treatment industry
- Iron and Steel Industry: Reheating furnace. Multi and single stack coil annealing furnaces, Transfer ladle lids
- Waste heat recovery units, Combustion Chambers, Boiler ductwork
- Technical Data

NIT 900422258-9

Product		1260 Module	1430 Module	1500 Module	1600 Module
Classification Temperature	°C	1260	1430	1500	1600
Recommend Using Temperature	°C	1100	1250	1300	1580
Chemical Composition	Al <sub>2</sub> O <sub>3</sub>	% 46	35	43	72
	SiO <sub>2</sub>	% 53.1	49.7	53.4	27.7
	ZrC <sub>0.2</sub>	% -	15	-	-
	Cf <sub>2</sub>	% -	-	2.8	-
Density	Kg/m <sup>3</sup>	160; 192; 210;			
Thermal Conductivity W/(m.K) Density in 160kg/m <sup>3</sup>	400 °C	(0.09)			0.09
	600 °C	(0.14)	(0.14)	(0.16)	0.13
	800 °C	(0.21)	(0.21)	(0.22)	0.17
	1000 °C		(0.26)	(0.29)	0.20
Linear Shrinkage( °Cx24H)	%	1100°C—1.0	1200°C—1.1	1400°C—1.7	1500°C—1.0
Standard Size	mm	300x300x50,75,100,150,200,250,300 Other size can be customized			
Shape Type		Fold	Stack	Reducer	
					
Anchor System For Fixing		M Anchor	Nut	Bolt	
					

**Este documento es propiedad exclusiva de BORSUA SAS**