



Refractory Fibrous Board

Product Data Sheet

Product Description

Refractory Fibrous Board (also known as Ceramic Fibrous Board / Insulating Fibrous Board) is a high-density, rigid inorganic refractory and thermal insulation product. It is manufactured using refractory Fibrous as the base material, combined with inorganic binders (free of organic additives) through processes of pulping, molding, pressing, and low-temperature curing. Unlike flexible Fibrous blankets, it features a dense, rigid structure, designed to withstand higher mechanical stress and provide precise thermal insulation in demanding industrial environments.

According to the different raw materials, the Fibrous board can be divided into the following categories:

- ◆ Standard Alumina-Silica Type
- ◆ Alkaline-Earth Silicate Type (Low bio-persistence)
- ◆ High-Alumina Type (Extreme High-Temperature Grade)

Features

- Low thermal conductivity, low heat capacity, thermal shock resistance, corrosion resistance;
- Uniform product density and hardness, good internal bonding force;
- Excellent post-firing strength and resistance to hot gas scouring;
- Convenient installation and use.

Typical Applications

- Refractory insulation materials for stone ladle back linings, bell-type furnaces, tunnel kilns, roller kilns, and aluminum melting furnaces;
- Insulation linings and back linings for heat treatment furnaces;
- Insulation linings and back linings for ceramic kilns;
- Refractory insulation materials for glass and building materials industries;
- Insulation linings.
- **And so on**

Main Performance

Type	RWB1200	RWH1400	RWZ1430	RWC1500	RWP1600	AES1200
Classification Temperature (°C)	1260	1400	1430	1500	1600	1200
Density (kg/m ³)	300±10%				400-600	300±10%
Slag ball content(75μm)	≤50%				--	--
Hardness(Shore C)	≥60				≥55	≥60
Flexural Strength (Mpa)	≥0.8				--	≥0.8
Compressive Strength (Mpa)	≥1.0 (10% thickness compression)				--	≥1.0
Insulation Permanent Linear Shrinkage (24-hour)	≤3 1000°C	≤3 1200°C	≤3 1350°C	≤2.0 1400°C	≤1.0 1500°C	≤2.0 1000°C
Loss on Ignition (%)	≤ 8					
Thermal Conductivity (W/m.k) (average temperature)	0.08 (400°C)					
	0.11 (600°C)					
	0.15 (800°C)					
	0.19 (1000°C)					
Product Specification (other sizes can be customized according to requirements)	Length*Width*Thickness (mm)					
	1000×600 (1200)×(10-100)					
	Length and width deviation ±2mm, thickness deviation -1,+2mm					

Note: The above data are representative averages measured according to general test methods and may vary with normal production fluctuations. These data are provided as a technical service and may be adjusted occasionally.