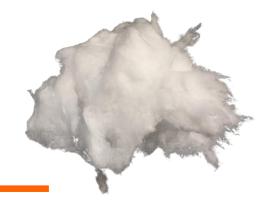


# **Refractory Fibrous Cotton**

## **Product Data Sheet**



## **Product Description**

Refractory Fibrous Cotton (also known as Ceramic Fibrous Cotton / Insulating Fibrous Cotton) is a loose, fluffy inorganic refractory and thermal insulation material. It is produced by melting high-purity raw materials, Unlike dense fibrous blankets or boards, it exists in a loose cotton-like form without further forming processes (e.g., needling or pressing), retaining maximum porosity and flexibility.

According to the different raw materials, fibrous cotton can be divided into the following categories:

- ◆ Alumina-Silica Type (Most Common)
- ◆ Alkaline-Earth Silicate Type (Low bio-persistence)
- ◆ High-Alumina Type (Extreme High-Temperature Application)

As a foundational product in the refractory Fibrous family, it is widely used as a raw material for secondary processing or direct filling insulation in industrial high-temperature scenarios.

#### **Features**

- > Exceptional High-Temperature Resistance;
- Low thermal conductivity;
- > Excellent thermal shock resistance;
- Excellent chemical stability;
- Not easy to pulverize at high temperatures;
- > Good elasticity retained at high temperatures;
- No binders or other corrosive substances;
- > Excellent sound absorption performance.

### **Typical Applications**

- Raw material for secondary products such as boards, papers,
  and special-shaped parts;
- > Heat insulation filling material for corners and complex spaces;
- > Filling material for expansion joints;
- > Filling material for short-term heat insulation repairs;
- Fibrous reinforcement material for heat-insulating concrete and binders:
- Precursor of engineering fibrous materials;
- Production of various ceramic fibrous textiles.
- > And so on .......





## **Main Performance**

		Standard Cotton	High purity Module	Synthetic High-purity Module	High-alumina Cotton	Zirconium- containing Module	Synthetic Zirconium- alumina Cotton	Zirconium- containing Cotton
Classification Temperature (°C)		1260	1260	1260	1400	1400	1400	1430
Chemical Composition								
Al <sub>2</sub> O <sub>3</sub>	%	43	45	45	52-55	40	40	35
ZrO <sub>2</sub>	%	-	-	-	-	5-7	5-7	>15
Al <sub>2</sub> O <sub>3</sub> +SiO <sub>2</sub>	%	≥98.0	≥98.0	≥99.1	≥98.0	-	-	-
$Al_2O_3+SiO_2+ZrO_2$ ( $Cr_2O_3$ )	%	-	-	-	-	≥98.0	≥99.1	≥99.1

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.