



# Refractory Fibrous Paper

## Product Data Sheet

### Product Description

Refractory Fibrous Paper (also known as Ceramic Fibrous Paper / Insulating Fibrous Paper) is a thin, dense, and flexible inorganic refractory insulation material. It is manufactured using short-cut refractory fibrous as the base material, combined with trace inorganic binders (free of organic additives) through processes of pulping, dispersion, wet papermaking, dewatering, and low-temperature drying. Unlike loose fiber cotton or thick fiber blankets, it features a thin-sheet structure with uniform density and smooth surfaces, designed for precision insulation, sealing, and heat-resistant lining in narrow spaces or high-demand industrial scenarios.

According to the different raw materials, Fibrous paper 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)

### Features

- Thermal shock resistance, low thermal conductivity;
- Excellent chemical stability, corrosion resistance, not eroded by most corrosives (except hydrofluoric acid, phosphoric acid, and concentrated alkali);
- High tensile strength, high flexibility, low slag ball content, precise thickness;
- Good high-temperature dielectric strength;
- High-temperature stability, low thermal conductivity, thermal shock resistance;
- Easy to cut, convenient to use.

### Typical Applications

- High-temperature insulation materials for various industrial furnaces, ladles, and submerged nozzles;
- Electrical insulation and heat insulation materials for industrial electric furnaces;
- Sealing materials for expansion joints of furnace doors, kilns, and furnace bodies;
- High-temperature sealing gaskets;
- Sound-absorbing and heat-insulating materials for vehicle exhaust emissions, isolation and anti-burning materials, etc.;
- Insulation for household appliances and insulation for high-temperature parts;
- And so on .....

**Main Performance**

| Type                              | AW1200       | RW700        | RW1260       | RW1430         | RW1600        |
|-----------------------------------|--------------|--------------|--------------|----------------|---------------|
| Classification Temperature (°C)   | 1260         | 700          | 1260         | 1400           | 1600          |
| Service Temperature (°C)          | ≤ 1100       | ≤ 550        | ≤ 1100       | ≤ 1250         | ≤ 1350        |
| Bulk Density (Kg/m <sup>3</sup> ) | 170-230      |              |              |                |               |
| Thermal Conductivity (W/m.k)      | 0.07 (400°C) | 0.04 (200°C) | 0.07 (400°C) | 0.069 (400°C)  | 0.068 (200°C) |
|                                   | 0.09 (600°C) | 0.06 (400°C) | 0.09 (600°C) | 0.088 (600°C)  | 0.087 (400°C) |
|                                   | 0.12 (800°C) | 0.08 (600°C) | 0.12 (800°C) | 0.1510 (800°C) | 0.100 (600°C) |
| Tensile Strength (≥Mpa)           | ≥ 0.60       | ≥ 0.60       | ≥ 0.60       | ≥ 0.60         | ≥ 0.70        |

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.

**Packaging and Dimensions**

| Specification Type | thickness(mm)                                                                  | length(mm) | Width(mm)   | Packaging                                                                                                    |
|--------------------|--------------------------------------------------------------------------------|------------|-------------|--------------------------------------------------------------------------------------------------------------|
| Standard           | 1                                                                              | 60         | 610 or 1220 | The packaging can be done in cartons or pallets. The packaging method can also be negotiated by both parties |
|                    | 2                                                                              | 30         |             |                                                                                                              |
|                    | 3                                                                              | 20         |             |                                                                                                              |
|                    | 4                                                                              | 15         |             |                                                                                                              |
|                    | 5                                                                              | 12         |             |                                                                                                              |
|                    | 6                                                                              | 10         |             |                                                                                                              |
| Customized         | The thickness, length and width will be customized through mutual consultation |            |             |                                                                                                              |