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# TECHNICAL DATA SHEET:

## High-Temperature Ceramic Fiber Rope

**Product Series:** AdTech-CFR Series

**Material Type:** Aluminosilicate Refractory Fiber

**Classification Temperature:** 1260°C (2300°F)

**Manufacturer:** AdTech Metallurgical Materials Co., Ltd.

**Website:** <https://www.c-adtech.com>

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### 1. Product Description

AdTech **Ceramic Fiber Paper** is a lightweight, flexible refractory material processed from high-purity alumina-silica fibers into a highly uniform, flexible sheet. Through a specialized wet-forming process with a low-content organic binder, our paper provides excellent thermal insulation, chemical resistance, and ease of handling.

It is designed for applications where space is limited and high-temperature sealing or gasketing is critical for operational efficiency and thermal protection.



## 2. Technical Specifications

Physical & Chemical Properties	Standard Value
Classification Temperature	1260°C (Standard) / 1430°C (High-Zirconia)
Continuous Working Temperature	1050°C
Bulk Density	200 - 250 kg/m³
Chemical Composition	$\text{Al}_2\text{O}_3$ : 45-47%
Tensile Strength	$\geq 0.5 \text{ MPa}$
Linear Shrinkage (1100°C, 24h)	$\leq 3.5\%$
Thickness Options	0.5mm, 1mm, 2mm, 3mm, 5mm, 6mm, 10mm
Loss on Ignition (LOI)	$\leq 10\%$

## 3. Key Features & Advantages

**Superior Flexibility:** Can be easily wrapped, folded, or cut into intricate shapes for custom gaskets.

**Low Thermal Conductivity:** Provides high-efficiency insulation in a very thin profile.

**High Dielectric Strength:** Excellent electrical insulation properties at elevated temperatures.

**Smooth Surface Finish:** Ensures uniform contact and a tight seal in expansion joints and gaskets.

**Excellent Chemical Stability:** Resists most corrosive agents, including molten aluminum and common industrial acids.

**Thermal Shock Resistance:** Maintains structural integrity during rapid heating and cooling cycles.

## 4. Typical Applications

**Industrial Gaskets:** High-temperature seals for furnace doors, heat exchangers, and gas ducts.

**Aluminum Foundries:** Expansion joint seals for launders, refractory lining backup, and parting agents for molds.

**Appliance Insulation:** Thermal barriers for ovens, heaters, and commercial kitchen equipment.

**Automotive:** Heat shields for exhaust systems and silencer insulation.

**Aerospace & Petrochemical:** Fire protection, pipe wrap, and radiant section seals.

**Electrical:** High-temperature electrical gaskets and wire/cable insulation.

## 5. Handling & Processing Guide

### Processing Tips:

**Cutting:** AdTech Ceramic Fiber Paper can be easily die-cut or hand-cut using standard knives or shears. For precision industrial gaskets, CNC water-jet cutting is recommended.

**Bonding:** Can be adhered to various substrates using high-temperature inorganic cements or spray adhesives.

**The "Burn-out" Process:** Our paper contains a small percentage of organic binder for flexibility. During the initial heating cycle, a slight odor and smoke may occur as the binder burns off. This will cease once the temperature exceeds 200°C.

### Safety Precautions:

**Protection:** Wear a dust mask, gloves, and safety goggles when cutting or installing.

**Cleanup:** Use a vacuum with a HEPA filter or wet-cleaning methods to manage dust; avoid compressed air for cleaning.

## 6. Packaging & Storage

**Packaging:** Supplied in rolls, standard widths are 610mm and 1220mm. Custom widths are available upon request.

**Storage:** Store in a dry, ventilated area. Keep the rolls in their original packaging until use to prevent physical damage and moisture absorption.

## 7. Quality Commitment

AdTech implements rigorous quality control for every roll of Ceramic Fiber Paper. We test for thickness uniformity, tensile strength, and high-temperature shrinkage to ensure our products meet the demanding needs of global industrial leaders.

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### Contact Us for a Custom Quote

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