



ADAK SANAT POLYMER Knowledge-Based Company
First Manufacturer of Ceramic Fiber Paper in Iran and Middle East



Ceramic Fiber Paper

Adak Sanat Polymer is a knowledge-based company founded with the aim of doing research and manufacturing of various forms of thermal insulators. Due to the varied applications of ceramic-based insulators in such industries as automobile, oil, gas and petrochemistry and steel, to name a few, and in order to meet the needs of these industries in Iran and the Middle East, this company has started manufacturing ceramic fiber paper due to the varied applications of ceramic-based products. This has been accomplished by developing and indigenizing the technology and installing a production line in Saidi industrial park in Khomein. As the first manufacturer of ceramic fiber paper in Iran, we aspire to supply the national and the Middle Eastern markets.

INNOVATIVE SOLUTIONS

ADAK SANAT POLYMER

Ceramic Fiber Paper

Ceramic fiber paper is a type of ceramic-based insulator that can be produced from various ceramic fibers including HA and HZ, and it shows excellent resistance to high temperature and harsh mechanical and chemical environments. These have made ceramic fiber paper a suitable choice of insulation for environments where features such as resistance to high temperature, thermal shock and corrosion are required. Flexibility, consistent thickness and high tensile strength are among other unique features of this product. Compared to ceramic fiber blanket, even though paper is thinner, it has a lower heat transfer rate.

Ceramic fiber paper is a white insulator that can stand high temperatures up to 1430 C°. One of the main characteristics of ceramic fiber paper is that since it does not contain asbestos, it is not harmful to the environment or humans, making it a great substitute for asbestos-based products.

In addition to the features mentioned above, resistance to a wide range of corrosive chemicals and oxidants, ease of installation, resistance to wild temperature fluctuations and the ability to be used as a noise insulator have attracted various industries to ceramic fiber paper.

Competitive Edges

01

Comparable to foreign products in quality at a cheaper price

02

Customizable properties and sizes

03

Accessibility due to Manufactured locally

04

Available in the form of rolls or sheets

Technical Specifications

Classification Temperature (°C)	1260, 1360, 1400, 1430
Density (kg/m3)	200
Possible to manufacture as	100-300
Tensile Strength (Mpa)	> 0.4
LOI	< 10%
Width (cm)	61 - 122
Thickness (mm)	1 - 20
Color	white
Packing	Carton

Today many industries benefit from all the advantages that ceramic fiber paper has to offer. Some of the main applications in industries are:

- Sealing gasket in petrochemical industries
- Heat insulation of equipment used in fuel stations and oil storage tanks
- Pipe insulation in environments with high temperature or casting industries
- Heat insulation of equipment in power plants
- Heat insulation of catalytic converter exhausts in the automotive industry
- Heat insulation of furnaces and industrial vessels
- Heat insulation of ovens and boilers
- Safety clothing and equipment including lining in firefighters' uniforms and refractory bags
- Heat insulation to minimize heat loss in nozzles
- Lining for insulation of molds
- Electrical insulation in the electrical industry
- A substitute for asbestos products
- Sound and heat insulation in the construction industry



Ceramic Fiber Paper Features

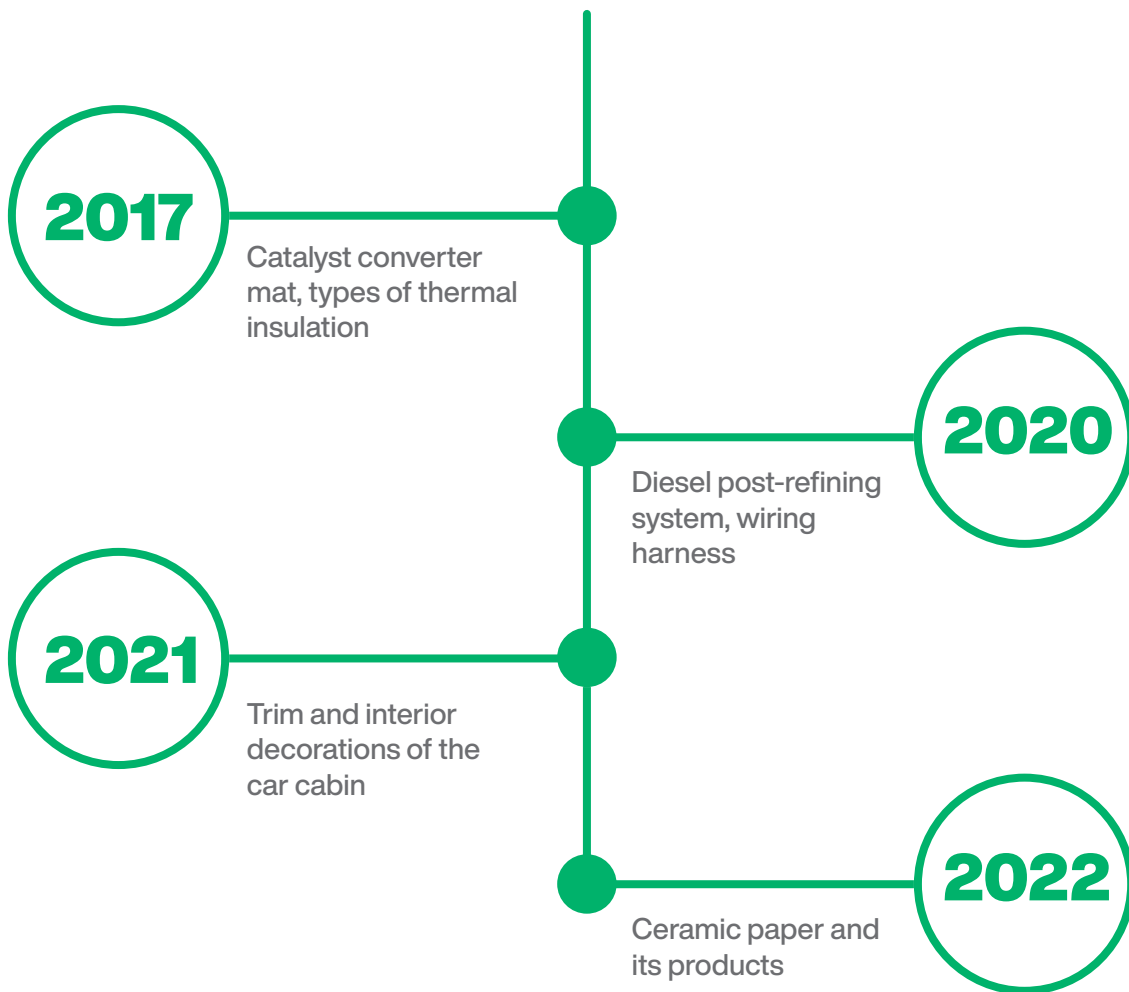
- ✓ **Consistency, light weight, flexibility, white color**
- ✓ **High thermal resistance (1260, 1360, 1400, 1430 degrees Celsius)**
- ✓ **High durability**
- ✓ **Formability and easy installation**
- ✓ **Resistance to thermal shock**
- ✓ **Proper mechanical resistance and high tensile strength**
- ✓ **Resistance to various corrosives**
- ✓ **Ability to be used as electrical insulator due to its proper dielectric properties**
- ✓ **Proper for sound insulation due to its sound absorption properties**
- ✓ **Environmentally friendly**



**Designing and
manufacturing of all
types of shaped ceramic
fiber paper, gaskets and
washers**



Timeline



ADAK SANAT POLYMER

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