

CCEWOOL® Intumescent Ceramic Fiber Paper



Classification Temperature: 1260°C (2300°F)

Chemical Composition: Alumina, Silica

CCEWOOL® Intumescent Ceramic Fiber Paper is a high-temperature ceramic fiber paper combining thermal insulation with active sealing performance. It is made from high-purity ceramic fiber, natural graphite flakes, and an organic binder through a stable forming process, providing a uniform internal structure and

consistent performance.

At approximately 1200°F (649°C), the product expands significantly, with its thickness increasing up to approximately 4 times the original thickness. During heating, it automatically fills installation gaps, improving sealing reliability at elevated temperatures. This makes it particularly suitable for high-temperature gaskets, seals, and structures requiring thermal expansion compensation.

While providing intumescent sealing performance, CCEWOOL® Intumescent Ceramic Fiber Paper also maintains good flexibility, thermal insulation, and mechanical integrity. It is easy to cut, punch, and assemble, and is well suited for Fabrication processing into customized gaskets, seals, and high-temperature insulation components.

CCEWOOL® can also provide Fabrication customization according to customer drawings and application requirements, including different sizes, thicknesses, and shapes for high-temperature equipment, sealing systems, and complex structures.

Characteristics:

Excellent intumescent performance;

Excellent high-temperature self-sealing performance;

Low thermal conductivity;

Low heat capacity and low heat storage;

Low shot content;

Lightweight;

High flexibility and good resilience;
High strength and tear resistance;
Good machinability;
Easy to wrap, form, and cut;
Good electrical insulation with high dielectric strength;
Excellent corrosion resistance;
Good thermal shock resistance.

Applications:

High-temperature gaskets and seals;
Expansion joint insulation and sealing;
Fire protection and thermal insulation;
Sealing areas in industrial furnaces and kilns.

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CCEWOOL® Intumescent Ceramic Fiber Paper	
Color	Gray
Maximum temperature rating °C	1260(2300°F)
Continuous use limit °C	1050(1922°F)
Melting point °C	1700(3092°F)
Maximum expand	400%
Chemical Content	
Silica, SiO ₂	45-48
Alumina Oxide, Al ₂ O ₃	42
Carbon, C	10-15
Other	2
Organic Binder	5-10
Tensile Strength	
16-18 pcf. density	0.5-0.7 Mpa
Specification	
Sizes Available	610/1220mm (24"/48")
Thickness	2-5mm (1/12"-1/5")