

Deodorizing, antibacterial functional paper and nonwoven fabric that incorporate zeolite.

Cellgaia® High-functional Paper and Nonwoven Fabric

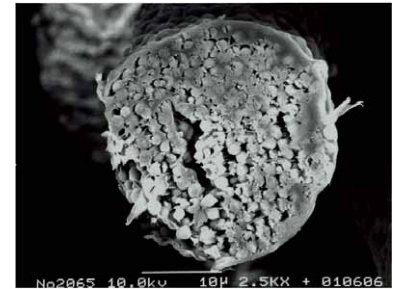
Features

- Paper and nonwoven fabric made of pulp consisting of cellulose fibers that incorporates zeolite, a natural mineral, crystallized artificially in the fibers.
- A safe product with ease of disposal.
- Using cation exchange property of zeolite, it is possible to carry silver or copper ion. Thus deodorization, antibacterial, and inactivate virus functions are given.

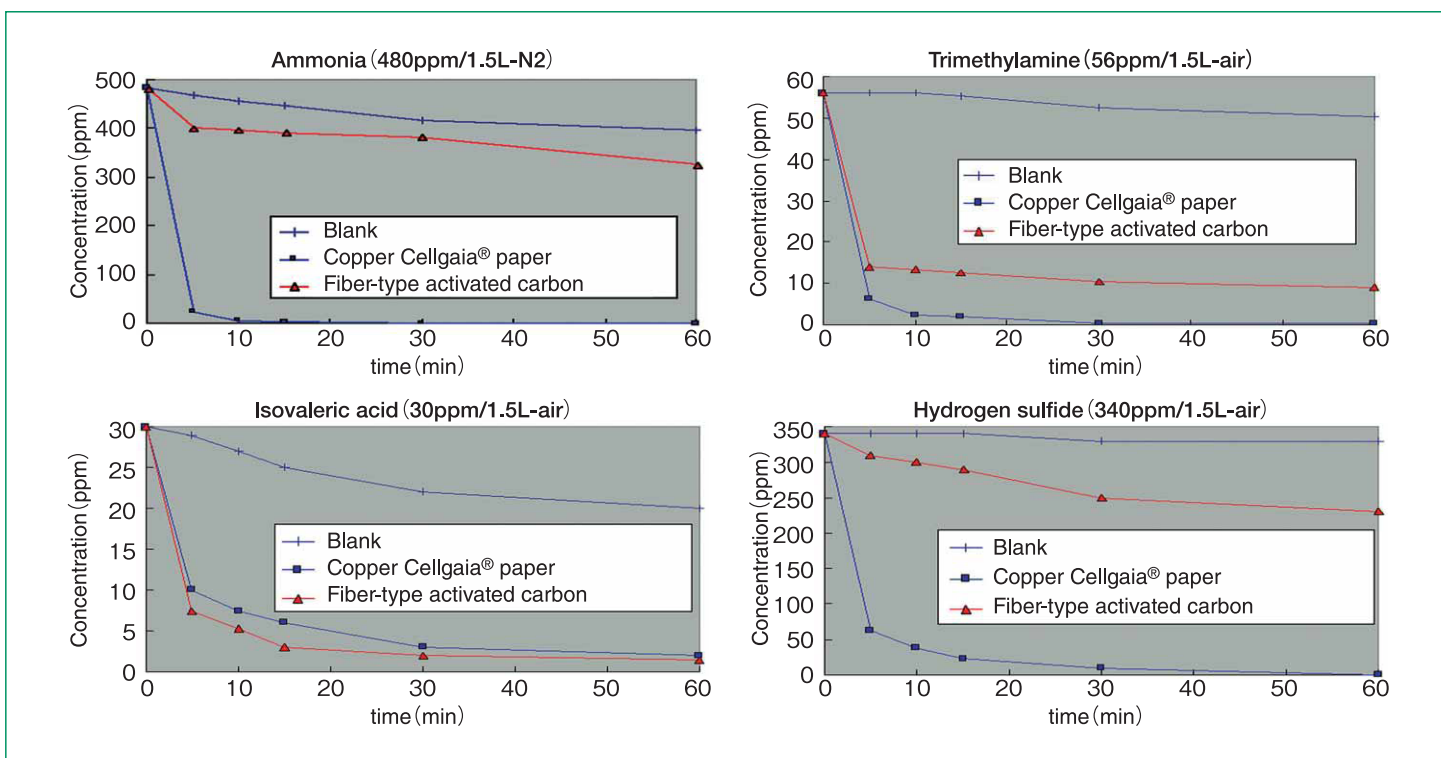
Overview

(Technical principles, actions, etc.)

Cellgaia™ is novel pulp in which zeolite is crystallized artificially on the surface and inside of cellulose fibers. Cellgaia™ can be mixed during paper or nonwoven production process easily. Thus make high function of powder zeolite possible to use as sheets of paper or nonwoven fabric. Cellgaia™ is a highly safe material that ensures easy disposal and minimum impact on environment. By cation exchange of copper or silver ions, Cellraia™ can deodorize effectively typical bad smell, such as amines, aliphatic acids, and sulfur compounds, and also have antibacterial, antifungal, and virus inactivation performance.



Cellgaia™ Cross-sectional Microphotograph



Cellgaia™ Deodorization Examination Data (Gas capacity: 1.5 l; Sample: 5 x 5 cm)

Applicable field
Various Filters, Sanitary Materials, Pet Articles

Water

Energy saving/Energy recovery

Energy storage/Energy creation

New energy

Waste disposal/
Recycling/
Resource saving

Air

Soil

Other

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