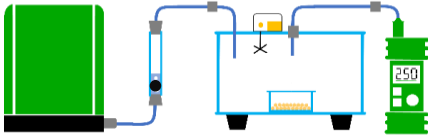


Introduction

We want to develop a safe deodorant that anyone can use.

Method

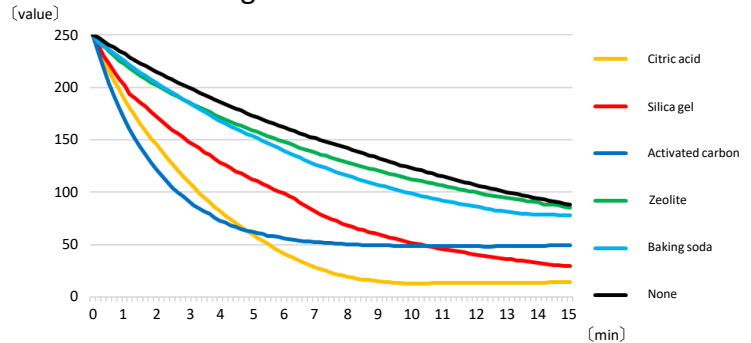
- ①The apparatus was filled with odor substances by the compressor.
- ②When the value of the odor sensor increases up to 250, we remove the lid of deodorizing substances. We also use a fan.



Deodorizing Experiment

<Experiment 1>

Deodorant target : Ammonia



- Citric acid → **Chemical deodorization**
- Activated carbon, silica gel → **Physical deodorization**

Deodorant paper

We made deodorant paper.

- ①shave paper mulberries and get fiber of bark
- ②dissolve 10g of carboxy methyl cellulose in 2L of water and mix 50g of bark
- ③scoop out this mixture and spread them on the wire net flatly
- ④dry it



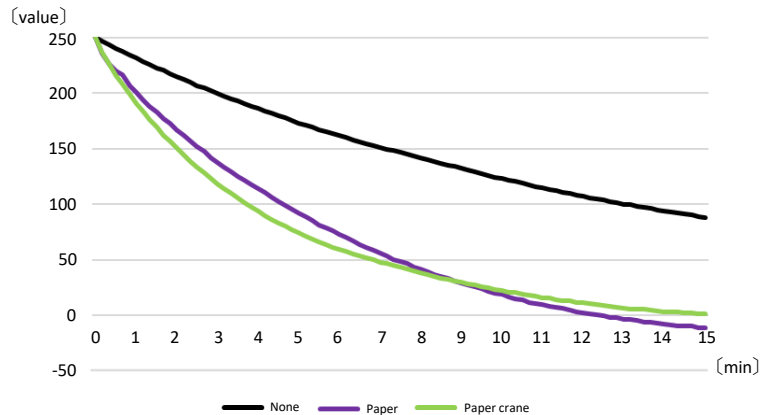
Mulberry paper



Paper crane

<Experiment 2>

Deodorant target : Ammonia



- Mulberry paper have a great effect.
- Folded paper have the same effect as unfolded paper.

Future prospects

- Do more experiments by using other kinds of odor substances : **formaldehyde**, **isovaleric acid**, **acetic acid**.
- Making paper which contain **activated carbon** and **citric acid**.

References

Fragrance pollution

We don't need "Fabric Refresher"

First deodorization technology

Okamoto kanji

Watanabe Yuji

Kawase Yoshinori