

Deodorize Granule AQ Ink 18

Overview

What is Deodorize Granule AQ Ink 18

Deodorize Granule AQ Ink 18 is the aqueous dispersion of the micro-encapsulated deodorizing agent which hence can be easily applied for handy-spray or laundry-softener.

Deodorize Granule AQ Ink 18 can be applied onto textile articles, and it gives the effect when the microcapsules get destructed by hand kneaded or rubbed. As long as the microcapsules remain unbroken, the effect remains for months.

The deodorizing effect is particularly effective against ammonia, acetic acid, isovaleric acid (stuffy socks), n-butyric acid (sweat odor), trimethylamine (putrid fish odor), and indole (fecal odor).

Characteristics

Composition	Microencapsulated deodorizer / Water / Thickener
Appearance	Milky white paste
Average particle size	About 4.0 μm
pH	6-8
Density	$1.02 \pm 0.05 \text{ g/cm}^3$
Viscosity	$2,000 \pm 1,500 \text{ mPa} \cdot \text{s}$ (at 25°C) (BH type viscometer)
Ionicity	Slight Anionic
Active ingredient	$40.0 \pm 5.0\%$ (capsule component), up to 35% (included compound component)

Durability Confirmation

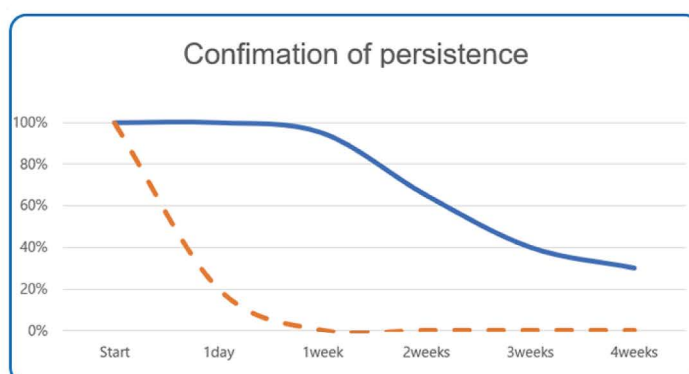
Non-capsule products : lose their effectiveness within a day.
 Capsule-based products (such as ours) : **last for over a week(*)**

*Please note that the results of this testing are based on our own internal staff.

*We created test cloths and assessed the odor-binding capabilities of our product using sensory analysis by our staff members

*When evaluating odor strength, we rubbed the test cloth before performing our assessments.

*The longevity of the deodorizing effect is determined by the release of the fragrance when the capsules are broken. This, in turn, is proportional to the capsule dosage used.



Wash ability

●Test Process

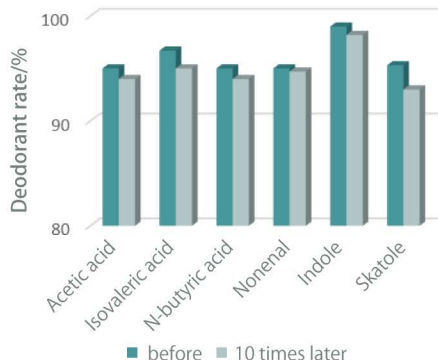
<Printing>

Binder : 95%,Deodorize Granule AQ Ink 18 : 5% mix then print to cotton 100mesh 1stroke curing 160°C10mins

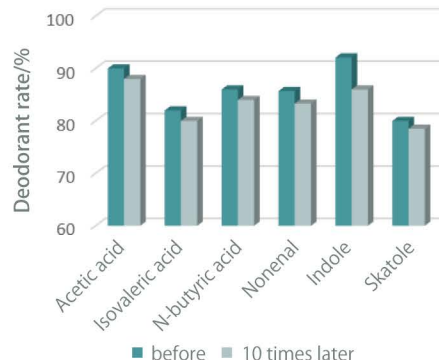
<Padding>

Padding Ink : 99%,Deodorize Granule AQ Ink 18 : 1% is dipped by Cotton for making 100% padding fabric curing 160°C10mins

Performance Before and After (Printing)



Performance Before and After (Padding)



<Washing Test>

JIS L 1930 C4M 10times

<Deodorize Performance Test>

Malodor component with the test fabric in a specified container and calculate the deodorizing rate from the remaining concentration of malodor component after 30 minutes.

※Initial concentration of malodor component

Acetic acid : 50ppm

Isovaleric acid : 50ppm

N-butyric acid : 50ppm

Nonenal : 5ppm

Indole : 1ppm

Skatole : 1ppm

Example of use (Deodorization processing according to the SEK standard)

By using the additire "Deodorizing aid PZ" with Deodorize Granule AQ Ink 18, elimination of odor components specified by the SEK standard can be expected.

Odor component		Ammonia	Acetic acid	Isovaleric acid	Nonenal
SEK ST	Initial concentration	100 ppm	30 ppm	38 ppm	14 ppm
	Deodorization rate	More than80 %	More than70 %	More than95 %	More than90 %
Results with deodorized fabric.		99.5 %以上	92.9 %	95.0 %	91.2 %

<Ink Formula>

Deodrize Granule AQ Ink 18	5.0
Deodorizing aid PZ	5.0
Binder 0523E	89.0
Fixer FE	1.0
Total	100

Notes

- (1) Please store this product in a cool, dark place below 40° C. However, avoid freezing it.
- (2) Depending on the ingredients used, there is a possibility that the state of this product may become unstable, such as gelling or separating, so please conduct sufficient testing in advance. And please contact with support team.
- (3) When handling the product, please read the SDS before use.

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