

Aroma Granule AQ Ink NF Menthol

Overview

What is Aroma Granule AQ Ink NF Menthol

Aroma Granule AQ Ink NF Menthol is a non-formaldehyde water-based paste that contains L-menthol, a cooling agent that has been stably blended using our company's unique microencapsulation technology. It can easily add a sustained cooling effect to products such as cooling sprays and laundry softeners by being optionally blended.

(Note that the cooling effect is not caused by a decrease in temperature or body temperature due to the properties of the raw material.)

Textile articles treated by the laundry softeners compounded with Aroma Granule AQ Ink NF Menthol release a cooling effect when the microcapsules are broken by rubbing or kneading the fabric after use. Additionally, microcapsules used in clothing can remain stable for several months unless the capsules are destroyed. Aroma Granule AQ Ink NF Menthol can also be used in Binder to print t-shirts or used in product dyeing to easily impart sustained cooling effects.

Characteristics

Composition	Microcapsules / water / sediment stabilizer
Appearance	Milky white or slightly yellowish paste
Average particle size	About 4.0 μm
pH	5-7
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	Weak anion
Active ingredient	$40.0 \pm 5.0\%$ (capsule component), up to 23% (included compound component)

Durability Confirmation

Non-capsule products : Effect disappears within a day.

Capsule products (this product) : **Lasts for more than one week (*)**

*The test involved creating a test fabric and confirming the results through skin inspection by our employees.

*To measure the long-term cooling effect, the test fabric was rubbed before verification.

*The durability of the cooling effect depends on the amount of capsules used, as the cooling agent is released by capsule rupture, resulting in its effectiveness.



Recommended formula

●For Printing

Binder 0523E	89
Aroma Granule AQ Ink NF Menthol	10
Fixer FE	1
Total	100

100-mesh 1-stroke printing on fabric
⇒ Dry at 80° C for 10 minutes

●Spray

water	90
Functional Capsule Ingredients (*)	X
Aroma Granule AQ Ink NF Menthol	10
Total	100+X

*According to your preference, it is possible to add our capsule perfume, cooling sensation, and functional ingredients.

●For Padding

water	83
Matsumin sol MR50	~10
Dyestone PrintgenXL	2
Aroma Granule AQ Ink NF Menthol	5
Total	100

Padding to fabric with a draw rate of 100%.
⇒ Dry at 80° C for 10 minutes

Notes

- (1) Store the product in a dark place below 40° C. However, please avoid freezing.
- (2) The product may settle or separate during long-term storage, so be sure to stir before use.
- (3) Depending on what is added, the state may become unstable due to gelation, separation, etc., so please conduct sufficient tests in advance.
- (4) Shelf life is one year. Products older than 1 year may smell slightly different from the original scent.
- (5) During processing, odors will accumulate in the surroundings due to volatilization of fragrances, so please work with sufficient ventilation.
- (6) Depending on the storage conditions, it may thicken (harden) over time. In that case, add 25% ammonia water or 5% caustic soda as appropriate to return to the original state.
- (7) Please read the SDS before handling the product.
- (8) Usage examples are provided for reference only. For specific methods, please contact our sales department or engineering department.



MATSUI SHIKISO CHEMICAL CO., LTD.

Head office : 64, Kamikazan Sakuradani, Yamashina-Ku,
Kyoto 607-8466, Japan

TEL.075-594-5612 FAX.075-594-0829

