

Antiallergenic agent
PARAFINE ANA-15



OHARA PARAGIUM CHEMICAL CO., LTD.

Allergens

Allergens are substances that can cause an allergic reaction.

- Pollen is one of common allergens nowadays, which is classified and called as seasonable allergens.
 About 60 species of pollens including cedar, cypress, and cocksfoot pollens has been reported as pollen allergens.
- House dust found indoors regardless to season is a perennial allergen in distinction from seasonable pollen allergy.
 House dust, originated from mites, their carcasses, excrements, danders, or molds, may produce various allergic symptoms.
 Particularly, *Deratophagoides farinae* and *Dermatophgoides pteronyssinus* are contaminative. Their carcasses discharge an allergen gradually as they decompose.



Deratophagoides farinae



Cedar

Pollens to be allergenic according to season



PARAFINE ANA-15

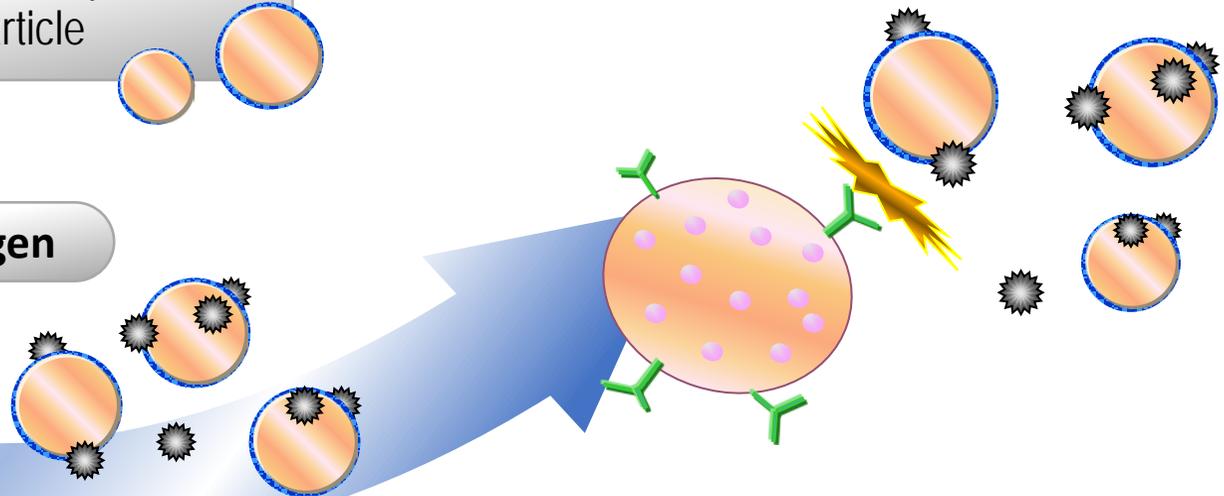
1. This product has a high effect of the calming the allergens.
2. It acts on the calming of allergens (pollen, ticks) which is a factor of causing an allergic symptom.
3. This is the safety product which does not have the problem like mutagenicity and the oral toxic value.
4. This product does not bring on NOx xanthosis as with polyphenolic type such as persimmon juice and the tannic acid known for an allergenic calming effect.

Antiallergenic action Inhibit allergic activity

1. Allergen + Special coated compound of nano-sized particle

2. Block allergen

3. Not bind with masto cell



Chemical & Physical Properties

Appearance

Milky white dispersing liquid

Main component

Silver-supported microporous inorganic compounds

Ionic status: Anion

pH: 8.0 ± 1.0

Resolvability

Easily dissolve in cold water

Standard use recipe

Padding method	
PARAFINE ANA-15	5 ~ 10%
PARARESIN PS-200	3 ~ 8%

It works by a normal drying process.

Calming allergens test recipe, and result

			1	2
PARAFINE ANA-15			Untreated	5%
PARARESIN PS-200				5%
Calming allergens rate ELISA method (%)	Pollen	Initial	0	92
		HL-10	0	84
	Ticks	Initial	0	98
		HL-10	0	90

Process & Conditions

Material: 100% Cotton knit

Padding

Pick up: 87%

Dry: 110°C × 3min

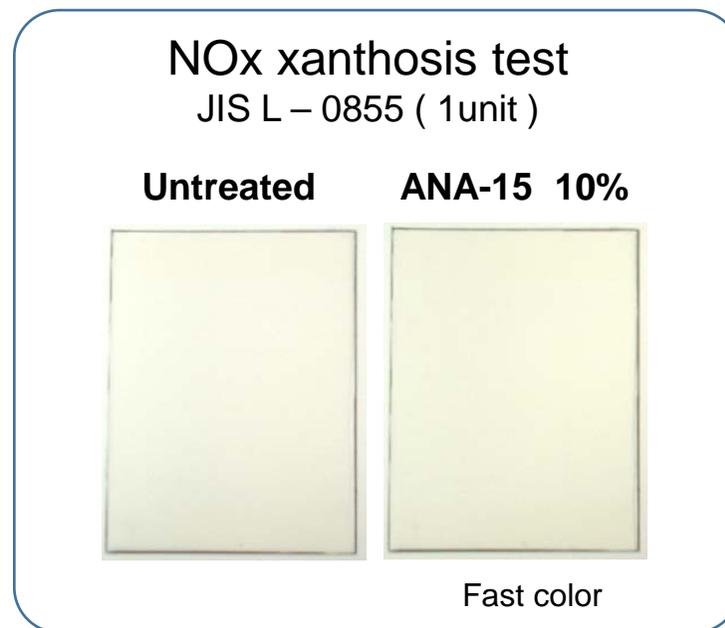
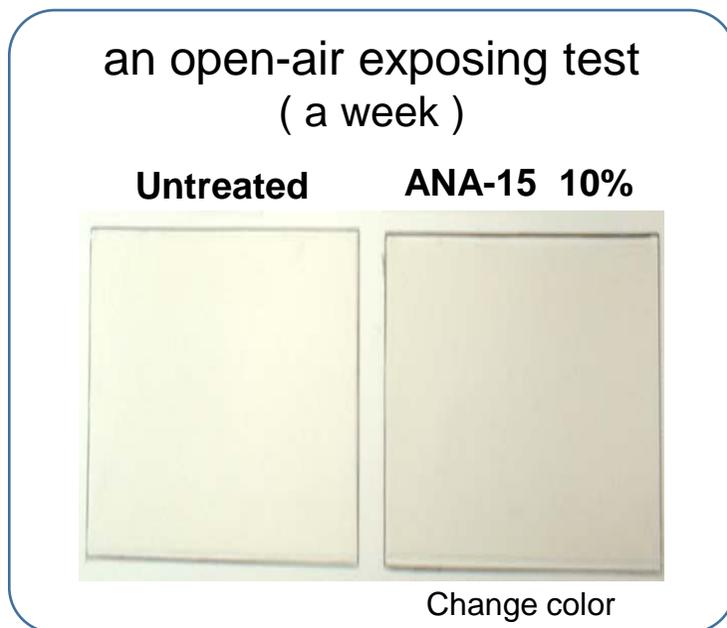
Cure: 160°C × 1min

[ELISA method: Enzyme-linked immunosorbent assay]

A method to detect a small amount of allergen included in the sample using antigen-antibody reaction by an antibody or an antigen.

Metachromasia caused by the silver oxidation

Material: 100% Polyester



The change of the color of the cotton and cotton mixed fabrics is calmer than polyester.

Safety test data

	Test animal	Rdministrating path	Test result
The acute toxicity test	Rat	Oral	Over LD50,5000mg/kg
The first skin stimulation test	Rabbit	Skin	No acidity
The mutagenic acquisition test	Salmonella	—	No mutagenicity
The skin sensitization test	Marmot	Skin, Under the skin	No skin sensitization

Precautions

1. Performance varies according to fabrics and recipes.
2. Preliminary test should be carried out in order to check the effect, and the color fastness by the silver oxidation.
3. This product does not settle out in the case of preserved without diluting, but it settle by diluting it.
When you leave the diluted product for a long time, please always stir it.
4. When use it, stir a safekeeping tank, and a processing bath to scatter.

