

Anti-mite-test

Product. Test. Label.

This long-term test evaluates the acaricidal efficacy (mite killing effect) of finishing on the development of a house dust mite population.

This test is particularly suitable for

- Textiles and fibers treated with acaricides
- Chemicals for spray application, that are supposed to kill house dust mites



Description

The acaricidal efficacy of a textile sample and the finish against house dust mites is performed following the French standard **NF G39-011**. For that purpose house dust mites (*Dermatophagoides pteronyssinus*) are applied on the sample material and the controls. After one week and six weeks the growth of the mite population is quantified.

In the case of three-dimensional test specimens, which do not allow a counting of the mites due to their construction, the allergen content (major allergen Der p 1) is determined after 6 weeks.

Customer benefit

- Product optimisation
- Advertising impact

Marketing Instruments – Labels and Certificates

On passing the test with a high inhibition of the development of a mite population the product may be awarded the Certificate “Efficacy against house dust mites” or the Quality Label “Anti Dust Mite”.

Test sample requirements

General

- Once the test sample has been received, we will inform you if the material is adequate for the test.
- A reference material made of the same basic fabric but untreated can be send with the test sample. If there is no reference material, an internal lab standard material will be applied as negative control.
- Test samples and if applicable a reference material, must be packed individually and dark, e.g. in plastic bags.
- Please provide complete information on the samples, such as denotation, composition of material, description of the finish, article number (if known) or, where applicable, washing cycles.

Quantity of material

- At least 20 x 30 cm of the test sample

Duration of the test

- 7 – 8 weeks; the date will be confirmed once the test sample has been received

Test criteria

- Counting method
 - After 6 weeks the number of living mites is determined
 - If the growth of a mite population is inhibited over a period of two development cycles (average inhibition of $\geq 90\%$) the tested sample can be certified with “efficacy against house dust mites”.
- Determination of allergen amount
 - After 6 weeks the Der p 1 allergen amount of the samples according to the negative control is detected.
 - If the Der p 1 mite faeces allergen amount is reduced by $\geq 90\%$ (Der p 1 allergen amount compared to the negative control) over a period of two development cycles, the tested sample can be certified with “efficacy against house dust mites”.