



WE PROTECTION

Insect Proof Concept
INSECT PROTECTION AGENT

INSECT FREE

The bad news: insects can be a real pain.
The good news: there is a safe way to avoid
all the trouble they cause.

INSECTPROOF.BIZ

ADDING PASSION
TO TEXTILES.

TANATEX[®]
CHEMICALS 

INSECT PROOF CONCEPT

INSECT PROTECTION AGENT

People have been struggling to protect themselves against insect borne diseases for a long time. Recently, the dangers were underlined by disease outbreaks like Zika and Lyme. Both diseases caused a great deal of unrest in North-America and Europe, resulting in a growing demand for insect protection products.

Our solution

For many years, TANATEX experts apply the power of permethrin. After thorough research, our experts found a way to protect people and animals against insects.

Widely used

Permethrin is way more toxic to insects than it is to warm blooded creatures, which is why it is recommended by the World Health Organisation (WHO) as public health pesticide. Permethrin is also the choice of armed forces around the world, that use the product to insect proof their uniforms. Clearly, permethrin products are on the rise.

D-day for biocide regulations

Permethrin is a biocide and therefore it is subject to regulations. As of September 2015, only officially registered products can be sold in Europe. In some cases, textile manufacturers have to register their products too. When working with permethrin, some knowledge on regulation and international agreements is required.

What we did

TANATEX Chemicals is listed as a product supplier of an effective insect protection agent to fight insects. Our state-of-the art insect proof concept can be applied on all fibre types and is widely used for military wear, fashion apparel, sportswear and outdoor apparel.

How to apply

In April 2016, we submitted the registration files for our product. It's active ingredient was already registered:

1. Permethrin (active ingredient)
2. BAYPROTECT® AM (product that protects people and animals against insects)

1

Permethrin

Permethrin attacks the nerve system of insects. As a result, they get paralysed and die. Obviously, insects do not want to die, and they instinctively know they should stay away. Our Insect Proof product come in the form of a finish and can be added to any fabric type.

2

BAYPROTECT® AM

As a response to the insect related problems, TANATEX came up with BAYPROTECT® AM. This insect protection agent keeps away mosquitos, flies, and ticks, without endangering the health of humans and animals.

“Protect yourself against insects through insect repellent clothing”

- René Hermse, Global BU Manager -



Mosquito's

Attributed to tropical diseases such as Malaria, Zika, Yellow fever, Dengue fever, West Nile fever and many others, causing around 700,000 annual deaths every year with tropical climates and the Americas.



Ticks

Cases of Lyme disease caused by tick bites in Europe alone saw 360,000 cases over the last two decades according to the World Health Organisation.



Benefits

Up to 100 washes

The active component of Insect Proof is synthetic pyrethroid, a substance similar to the substance found in flowers like the chrysanthemum. Combined with TANATEX's unique binder system, the concept has a profound long-lasting effect that can last up to 100 washes. Even after being laundered many times, the finish will not lose its functionality. The Insect Proof Concept can be used on all types of fabric, ranging from sportswear, outdoor wear, military wear and even tents and mosquito nets.

No 1. Choice of armed forces

Permethrin based products have been used for over 20 years in insect proofing of combat uniforms; one of the major applications of the Insect Proof apparel. Defence forces battle on the most unforgiving terrains where they encounter a wide variety of insects. This makes them vulnerable to a range of tropical diseases. Our top of the bill treatment is used by numerous armies worldwide. This is thanks to the German army that has made permethrin its standard.

Knowledge on biocide regulations

TANATEX Chemicals is listed on the European Biocidal Products Regulation (BPR, Regulation (EU) No. 528/2012) as a product supplier for permethrin and the product type (PT) 18. Permethrin regulation is complex, to say the least. Rules differ per country and main function of the end product. This has consequences for both permethrin suppliers and textile manufacturers. Tanatex treated textiles with our (registered) product do not require further registration in the EU. For other countries, we can advise you on the registration of your product.





INSECT PROTECTION
SAFE & EFFECTIVE
ALL FABRICS

Performance

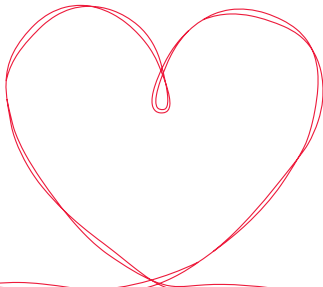
To get registered, the safety and effectiveness of our product have been carefully tested. The 'arm in cage test', for example, shows how mosquitos stay away from clothing impregnated with permethrin, and what's more don't sting the person tested.



Without Insect Proof



With Insect Proof



*We believe that with our passion we can change the textile world.
We improve experiences and make new experiences possible.*

Got a burning question?

Our in-house product specialist knows everything there is to know about biocidal products regulations, the chemistry behind the Insect Proof Concept and its technical application. Do you have questions? Go to **INSECTPROOF.BIZ** and get in touch!
In the meantime, you can read our free white paper on permethrin regulations.

About TANATEX

TANATEX Chemicals breaks new ground with ultramodern textile processing solutions, ranging from pre-treatment to finishing. Through a global network of offices, agencies and distributors, we support our customers worldwide with advanced top quality wet processing products and a high level of technical and tailor-made service. For almost 60 years we have proven to be a trustworthy and innovative associate. Since 2016 we are proud partner of Transfar Chemicals.

Our cutting-edge products are based on the latest trends and demands in today's (technical) textiles and carpet processing industry. We do not sell mere products; we offer fit-for-purpose solutions. With an eco-friendly way of thinking, TANATEX experts are the ones to watch.

+31 (0)318 67 09 11 | info@tanatexchemicals.com | [INSECTPROOF.BIZ](https://www.insectproof.biz)

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