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Development of a **Textile** with **Silica** coating for environmental friendly control of insects in **Agricultural** production

Deliverable [23]: *[AgriTexSil Patent]*

Version 1.0: first version delivered on 28-11-2019

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The deliverable is available upon request

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D [10]: [Data of the fiber's characterization]



Project Details:

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Project Acronym: AgriTexSil

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Deliverable Details

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Abbreviations:

ITA: Institut für Textiltechnik, Germany

UTH: University of Thessaly, Greece

ThraceNG: Thrace Nonwovens & Geosynthetics S.A.

P&S: Powder and Surface GmbH

D [23]: [AgriTexSil Patent]

Abstract

A screen with silica coating for environmental friendly control of insects in greenhouses, screenhouses and food storage facilities

The invention relates to woven insect screen. Such insect nets can be used in greenhouse and/or greenhouse screens in order to protect plants from unwanted small-sized bugs and to maintain the good quality of plants and crops. The insect net coated has a non-organic substance as an active ingredient, which prevents bugs from moving through the insect net. The active ingredient is silica particles applied on a woven textile made of yarns, such as monofilament yarns. The non-organic substance mat adhere to the yarns of the woven textile with adhesives or swelling agents, such as paraffin and wax. An insect net according to the invention prevents bugs from entering greenhouses and/or screen houses without using harmful organic insecticides.