GINEGAR
smart cover solutions

POLYSACK

ANTI-INSECT NETS

Ginegar´s anti-insect nets differ in the size of the hole (mesh = number of holes per inch). The following types of mesh are available, which are applied depending on the type of insects that prevail in the area:

17 MESH

It is used to protect against fruit flies (Mediterranean fruit fly and fig fruit fly) in orchards and vineyards, grape moth and pomegranate deudorix livia. This net is also used to protect against climatic elements such as hail, wind and excessive solar radiation.

25 MESH

It is used to protect against Mediterranean fruit fly in peppers.

40 MESH

It is used for partial blockage of whiteflies when weather conditions do not allow the use of 50 mesh.

50 MESH

It is used to block whiteflies, aphids and the mining fly. It is also available in gray.

55 MESH

It is similar to 50 mesh, but offers even more protection against whiteflies, aphids and the mining fly.

75 MESH

This mesh is used to block whiteflies, aphids and thysanoptera in greenhouses with forced air systems.

www.qgsistemas.com

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Q.G.Sistemas de Riego

Optinet® - double control of Thysanoptera

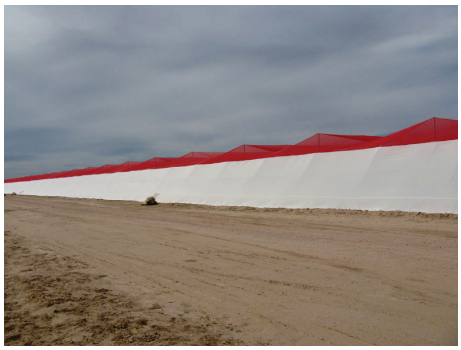
OptiNet® is a new generation, patented, anti-insect mesh that integrates physical and optical protection. This innovative mesh drastically reduces the number of pests and insects that enter the crop environment, especially the thysanoptera, the whitefly and the mining fly. This network contains optical additives (non-toxic) that blind and repel insects before they reach the mesh.

Four-year trials conducted at the Experimental Station of Besor in collaboration with the Volcani Institute of the Agricultural Research Organization showed that the population of thysanoptera under the 40 and 50 mesh of **OptiNet®** mesh is eight times smaller than under the standard 50 mesh nets.

OptiNet® is the only net that provides a solution to the problem of the thysanoptera while maintaining an adequate air flow, and its optical properties are maintained throughout its life cycle. The use of **OptiNet®** mesh 40 ensures even better ventilation conditions.

Features and benefits:

- Pest penetration is five times smaller than a standard 50 mesh mesh
- Reduces heat in structures through light reflection and shading
- Remains dust free compared to a 50 mesh transparent mesh
- Reduces the appearance of leaf diseases (such as late blight of tomatoes)
- Allows the use of a thinner mesh (40 mesh) for better insect control results than with a standard 50 mesh mesh, thus achieving better ventilation in the growth structures



Nets for Shading and Anti-Hail

Ginegar® offers a new generation of color light spectrum management nets. These nets allow growers to control light scattering, control and advance flowering dates and maturation times, accelerate the growth rate and influence plant growth properties, such as size and color of plants, leaves and fruits, the length of the branches and stems, number of knots, weight and size of the plant. This allows producers to adapt production to market preferences, with considerable economic advantages.

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ChromatiNet® – Light spectrum management

Plants depend on light as the ultimate source of energy. Photosynthesis converts light energy into the chemical energy necessary for the growth and development of plants, and plants are extremely sensitive to both the amount of light and its quality. By integrating special additives that break direct light, **ChromatiNet®** increases the proportion of diffused light that reaches crops. This diffuse sunlight covers a large volume of leaves and stimulates plant activity. Made using a multilayer manufacturing process and a technology that integrates unique additives, **ChromatiNet®** is the result of the intensive efforts of the research and development department of **Ginegar®** in cooperation with different international research institutes.

ChromatiNet® hail protection:

Hail protection from **ChromatiNet®** contributes to:

- Adaptation of production to market requirements, resulting in higher profits
- Higher harvests and significant improvement in fruit quality
- Physical protection against wind, hail, birds and bats
- Microclimate control
- Protection against sunburn and abrasion

Leno Perl Net

High density polyethylene mesh, offers the perfect combination of mechanical and spectral properties. The additives that are added during the manufacturing process improve the diffusion of the light for a homogeneous and even distribution of the roof, eliminating the shadow between the neighboring plants. By altering the quality of the light that penetrates the roof, we create a better growth of the plant and the fruit, greater photosynthesis and greater vigor. Leno Pearl net has the Anti-Dust property keeping the mesh clean over time.

Leno Blue Net

High density polyethylene mesh, alters the light distribution spectrum by improving the proportion of blue light (400-500 nm) and reduces the proportion of red light (600-700 nm). Leno Blue mesh reduces the soil temperature, as well as reduces the surface temperature of the fruits during hot periods under full aleo conditions, therefore the severity of sunburn measured at the time of harvest is reduced.

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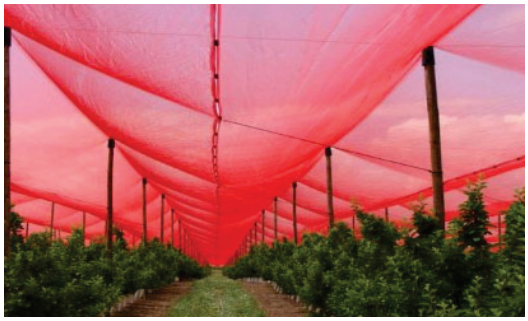
Leno Red Net



Red high density polyethylene mesh increases the light transmission in the R and FR spectrum (600-800 nm). The Leno Red mesh increased the size of the apples compared to the black mesh, reduced the incidence and severity of sunburn measured at the time of harvest in the Fuji and Gala varieties.

https://www.youtube.com/watch?v=WhrtjGSiYtg&feature=youtu.be

Thermal Screens

Ginegar® offers a new generation of thermal screens that allow producers to control the growth conditions in greenhouses and nurseries in order to create the optimal environment for the production of quality crops. These screens are lightweight, elastic, easy to install and offer UV protection, as well as:

Climate Control: it allows to reduce the temperatures during the day and to control the microclimate in greenhouses and nurseries, the uniform shading and the diffusion of the light, control of the air flow, protection against the cold and protection against pests.

Protection against direct sunlight: prevents damage caused by direct sunlight on plants and fruits, and prevents possible overheating in greenhouses. The screens spread the light that passes through them and increase the rate of assimilation in the plant.

Aluminet® Cold Protection

Ginegar's Aluminet® screens are lightweight, elastic and easy to install screens that offer UV protection and microclimate control in greenhouses and nurseries.

Save Energy

It has been shown that **Aluminet®** screens save more than 50% of heating energy, which means a direct reduction in operating costs.

Increase production

Aluminet® displays offer better temperature control and optimized light management to ensure maximum performance of your greenhouse. These screens raise the temperature of the plants at night, prevent overheating during the day and improve photosynthesis by increasing the amount of scattered light.

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Protect yourself against frost

Many outdoor crops benefit from better climate management. **Aluminet®** screens installed in light frame shade houses protect crops from frost, wind and heat stress, increasing crop quality and productivity.

Features and Benefits

- Creation of favorable conditions for the development of the plant with respect to open surface cultivation
- Considerable increase in production compared to open areas
- Significant reduction in pesticide use
- Protection against different weather conditions
- Shading control required for plant development, the rate of fruit ripening and the quality of these
- 25-40% savings on water used for crop irrigation
-

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