



Ryan® Ethylene Absorption Products

SENSITECH®

Ryan® Ethylene Absorption Products from Sensitech

When it comes to the quality of fresh horticultural commodities, temperature management and ethylene absorption go hand-in-hand. While good temperature management is always critical for maintaining the quality of perishable food, ethylene is yet another quality-influencing variable to be considered. Ethylene is used to promote faster and more uniform ripening of produce that has been picked at the mature-green stage. However, exposure to ethylene can have a detrimental effect on the quality of fruits, vegetables and ornamentals that are classified as having a moderate-to-high ethylene production rate. For example, ethylene removal is recommended in long-term controlled-atmosphere (CA) storage of apples and pears; it is particularly important to eliminate ethylene when storing avocados, kiwifruit, persimmons, carnations and other commodities that are extremely sensitive to ethylene.

Sensitech's line of Ryan® Ethylene Absorption products, consisting of filters and sachets, provides a cost-effective way to reduce the impact of ethylene on fresh horticultural commodities. Working with refrigerated air circulation, Ryan Ethylene Filters, which come in multiple sizes, help purify the air within road, land and sea containers. Ryan Ethylene Sachets help protect produce from the effects of ethylene inside individual shipping packages where air circulation is not available.

Postharvest changes in fresh produce cannot be fully stopped, but they can be slowed within certain limits. The use of ethylene absorbers, such as Ryan Ethylene Absorption Products, has shown to be an effective method for reducing ethylene during the transport and storage of fresh produce.

Benefits of Ryan Ethylene Absorption Products

- Reduces waste: controls excess ripening and rotting
- Reduces water loss: impacts appearance, texture and nutritional quality of produce
- Reduces unpleasant odors emitted from over-ripened produce
- Increases customer satisfaction by delivering a higher quality product

Ryan Ethylene Filters contain a mixture of natural clays and potassium permanganate (KMnO₄) and are designed to be effective in reducing ethylene, and acting as a disinfectant and anti-microbial agent. Filters need not come in direct contact with produce, which minimizes residue. Ryan Ethylene Filters are safe for use with organic products.

Absorbing ethylene from the atmosphere around the commodity is a preferred method for slowing produce deterioration.





Ryan Ethylene Sachets are designed for individual package usage, contain the same natural clays, and are as environmentally sound as Ryan Ethylene Filters. Sealed in a 5-gram, teabag-size pouch, one sachet in an individual carton will reduce ethylene, ensure airborne spore reduction and help to keep produce fresher from the packer to the end user. Ryan Ethylene Sachets are packaged in material safe for incidental contact with food; if the sachet is exposed to high humidity, the printed inks will not bleed onto the harvested commodity, and will allow ethylene gas through for oxidization to take place.

Ryan Ethylene Sachet Specifications	
Size of Filter	6.5 cm x 6.5 cm
Granule Composition per Filter	5 g
Absorption Capacity	3 liters/kg of granule
Filters per Case	1000
Case Weight	6.4 kg

Ryan Ethylene Filter 100 Specifications	
Size of Filter	4.7 cm x 100 cm
Granule Composition per Filter	960 g
Absorption Capacity	3 liters/kg of granule
Filters per Case	8
Case Weight	10.2 kg

Ryan Ethylene Filter 75 Specifications	
Size of Filter	4.7 cm x 75 cm
Granule Composition per Filter	710 g
Absorption Capacity	3 liters/kg of granule
Filters per Case	8
Case Weight	7.4 kg



Sensitech Inc. is focused on delivering supply chain visibility solutions that track, monitor and protect products for global leaders in the food, life sciences, consumer goods, and industrial markets. Our solutions are focused in three key areas: quality and compliance, supply chain security, and logistics performance management. Quality and compliance solutions address temperature-sensitive, complex supply chains focused on delivering the highest quality possible, while our supply chain security solutions help to mitigate risks associated with theft, diversion and chain of custody. Sensitech's logistics performance solutions deliver origin-to-destination, real-time transparency to any in-transit journey. Sensitech Inc. is an ISO 9001:2015 company, headquartered in Beverly, Mass., with over 35 sales, service and distribution locations around the world. Sensitech is a Carrier company, a leading provider of heating, air conditioning and refrigeration systems, building controls and automation, and fire and security systems leading to safer, smarter, sustainable and high-performance buildings. Unless otherwise indicated, all trademarks and service marks are the property of Sensitech Inc. Visit www.sensitech.com for additional information. ©2020 Carrier. All Rights Reserved.

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