

Product Sheet

OXY-GUARD™

OXYGEN SCAVENGERS PROLONG SHELF LIFE AND MAINTAIN FRESHNESS



PURPOSE

Oxy-Guard™ packets maintain taste, texture and freshness while helping prevent the conditions that may cause mold, microbial growth and rancidity in packaged foods.

WHAT ARE THEY?

A method of active packaging, Oxy-Guard™ oxygen scavenging packets, also known as oxygen absorbers, absorb available oxygen inside food packaging to prolong shelf life, maintain product quality and reduce food waste.

WHY USE THEM?

Oxygen is the primary pathway to food degradation, which affects flavor, color, smell and texture, as well as deteriorating vitamin and nutritional value. Aerobic microorganisms – such as bacteria, mold and fungi – require oxygen to form and thrive, which ultimately spoils food. The unsaturated fats and oils in food are highly susceptible to oxidation which leads to flavor-loss and undesirable odors.

Antioxidant preservatives are often added to food products to inhibit oxidation. Consumers, however, are demanding more organic, preservative-free foods, thus driving the need to address oxidation in the packaging rather than chemically within the food itself.

Clariant's Oxy-Guard™ packets, have a high capacity for oxygen absorption. Oxy-Guard™ can maintain an oxygen level of less than 0.01% inside a sealed package during the intended shelf life. This level is reached within 24 hours at normal temperature.

Typical applications include:

- Baked goods, breads, tortillas
- Nuts
- Dried grains
- Pastas, beans and rice
- Processed and dried meats
- Coffee and tea
- Chocolates and confectionary
- Meals ready to eat (MREs)
- Cheeses and dairy products
- Powdered proteins/beverages
- Pet foods and treats
- Frozen pizzas and meals

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AVAILABLE CONFIGURATIONS

Clariant offers a variety of sizes based on the size of package and the residual air inside.

Oxy-Guard™ is available as either individual packets or as a continuous strip for automatic insertion.

Residual air volume inside the food package (cc)	Size of Oxy-Guard™ needed
100	20
150	30
250	50
500	100
1000	200

Based on a sealed package with an oxygen transmission rate (OTR) of <40 cc/m²/day



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