

# **CLARIANT**

OXYGEN ABSORBERS PRESERVE FRESHNESS IN FOOD PRODUCTS



### **PURPOSE**

Oxy-Guard™ packets maintain taste, texture and freshness while preventing mold, microbial growth and rancidity in packaged foods.

#### WHAT ARE THEY?

A method of active packaging, Oxy-Guard $^{\text{TM}}$  oxygen scavenging packets absorb available oxygen inside food packaging to prolong shelf life, maintain product quality and reduce loss.

## 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 moisture 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

CLARIANT INTERNATIONAL LTD Cargo & Device Protection - BU Functional Minerals

Australia

Phone: +61 247 321 421

Brazil

Phone: +55 12 2128 2288

France

Phone: +33 1 41 76 20 00

Germany

Phone: +49 8761 82 765

India

Phone: +91 22 4077 9100

Singapore

Phone: +65 6897 7231

Turkey

Phone: +90 262 6737373

USA

Phone: +1 909 825 1793

e-mail: desiccants@clariant.com www.desiccants.clariant.com

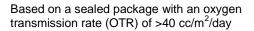
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#### **AVAILABLE CONFIGURATIONS**

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





Oxy-Guard packets are available in a variety of sizes to fit your needs

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