

# COLORMATRIX™ OXYGEN SCAVENGER PRODUCT FAMILY

Amosorb™ and Amosorb™ SolO<sub>2</sub>  
active oxygen scavengers





# THE AVIENT OXYGEN SCAVENGER PRODUCT FAMILY



ColorMatrix™ Amosorb™ additives are oxygen scavenging polyester concentrates that create an active barrier against the ingress of oxygen through the walls of PET containers. Amosorb provides a cost-effective and flexible package that can adapt to the requirements of specific foods and beverages in terms of product protection and shelf life, while helping to achieve sustainability targets.

Amosorb™ Solo<sub>2</sub> provides enhanced scavenging power combined with a passive O<sub>2</sub>/CO<sub>2</sub> barrier and, where required, a color, which can be tailored to suit individual customer requirements.

These ready-to-use technologies offer extended shelf life capabilities and the flexibility to manage the additional demands of rPET usage, resin compatibility and flexibility, sustainability, light-weighting, aesthetics, market seasonality and carbonated oxygen sensitive beverages.





## APPLICATIONS

Amosorb™ and Amosorb™ SoloO<sub>2</sub> can help assure product quality, consistency, and extended shelf life for a wide range of oxygen sensitive products including, but not limited to: beer, wine, fruit juices, nectars, teas, jar applications, UHT milk and dairy, sauces and condiments. They can be used for both mono- and multi-layer containers.

## PRODUCT RANGE HIGHLIGHTS

### Amosorb™ 4020E

- Non-nylon based oxygen scavenging technology for PET
- Helps to prolong the shelf life of many products in major markets

### Amosorb™ 100

- Non-nylon based oxygen scavenging technology for PET
- Developed to meet the needs of the North American market
- Featuring a special additivation package to allow for pre-consumer regrind

### Amosorb™ 4020G

- Lower haze levels and lower impact on PET recycle stream
- Non-nylon based active oxygen scavenger
- PET and rPET compatible
- Can be used with mono-layer and multi-layer applications

### Amosorb™ 4020R

- Consistent performance with all levels of rPET (25%, 50% and 100%)
- Improved haze and color when in combination with rPET
- Flexibility on choice of rPET grade
- Non-nylon based product

### Amosorb™ SoloO<sub>2</sub> -1 (non-carbonated/ carbonated) and SoloO<sub>2</sub> -2 (carbonated)

- Nylon based oxygen scavenging technologies for PET
- Active barrier effect to prevent O<sub>2</sub> ingress
- Passive barrier effect to prevent gas ingress and digress from the packaging (i.e. O<sub>2</sub> and CO<sub>2</sub>)

## Regulatory Information

Information regarding EU, FDA, Mercosur, GB and food contact regulations available upon request.

## Handling

ColorMatrix oxygen scavengers are supplied in sealed air and moisture-tight containers and require no drying before use.

The oxygen scavenger formulations are added to the PET melt using conventional pellet handling systems. Avient can provide full trial, analysis, and production support to optimize Amosorb™ technology used in a specific application.

**The ColorMatrix™ oxygen scavenger portfolio provides advanced product protection extending the shelf life of oxygen sensitive beverages and foods packed in PET and rPET containers.**

## Targeted Solutions

Avient offers oxygen scavengers that can be used with a wide variety of PET based resins and rPET grades, while being suitable to use for both mono- and multi-layer containers.

## Flexibility

The level of oxygen barrier required can be easily tailored by assessing customer needs (i.e product to be protected, bottle configuration, shelf life, etc.), and with the support (if needed) of a modeling service to maintain optimized performance.

## Easy Implementation

Avient's oxygen scavengers are simple to use and require no activation. They can be run on standard injection machines, providing easy installation for quick and cost effective processing.

## Good Container Aesthetics

When blowing conditions are optimized, excellent container clarity can be achieved, also when used in combination with other ColorMatrix colorant technologies.

## Recyclability

Amosorb and Amosorb SoloO<sub>2</sub> are 100% recyclable within dedicated recycling streams. Further information on recyclability is available upon request.



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