

OXYGEN SCAVENGER ADDITIVES

ColorMatrix™ Amosorb™
100 and 4020L



AVIENT OXYGEN SCAVENGER SOLUTIONS



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 solution that can adapt to the requirements of specific foods and beverages for product protection and shelf life, while helping to achieve sustainability targets.

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

Amosorb™ 100 and Amosorb™ 4020L can help assure product quality, consistency, and extended shelf life for a wide range of oxygen-sensitive products including, but not limited to: fruit juices, nectars, teas, wine, UHT milk and dairy, sauces, and condiments. They can be used for both monolayer and multilayer containers.



PRODUCT RANGE HIGHLIGHTS

Amosorb™ 100

- Non-nylon based oxygen scavenging technology for PET
- Developed to meet the needs of the North American market
- Featuring a special additivition package to allow for pre-consumer regrind
- PET and rPET compatible (up to 25% rPET)

Amosorb™ 4020L

- Excellent bottle aesthetics
- Improved recyclability versus legacy grades
- PET and rPET compatible (up to 100% rPET)
- Ideal for medium-to-long shelf-life applications
- Non-nylon based active oxygen scavenger
- Can be used with monolayer and multilayer applications

Regulatory Information

Information regarding EU, FDA, Mercosur, GB, and food contact regulations is 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.

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 monolayer and multilayer 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.

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

Easy Implementation

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

Excellent Container Aesthetics

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

Recyclability

Amosorb 100 and Amosorb 4020L are 100% recyclable within dedicated recycling streams. Further information on recyclability is available upon request.



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