



StabilOx[®] Specialty Oxygen Absorbers

StabilOx[®] Oxygen Absorbers Eliminate Oxygen For Better Product Stability

Achieving stability in pharmaceutical formulations or medical devices requires a difficult balance between increasingly complex variables. Success is a vital prerequisite to a new drug reaching the marketplace.

StabilOx Oxygen Absorber helps achieve this without toxic packaging components or expensive drug product formulation changes.

StabilOx Oxygen Absorbers provide a simple solution that resides inside the packaging instead of the drug product.

StabilOx Oxygen Absorbers effectively reduces package headspace oxygen levels

while managing headspace moisture and drug product free moisture to reduce or eliminate oxidative degradation. StabilOx Oxygen Absorbers accomplish oxygen absorption while managing the drug product's free moisture levels and related molecular mobility associated with most chemical degradation pathways.

StabilOx Oxygen Absorbers are offered in a variety of formats and sizes to fit your needs. We support your packaging and formulation teams to ensure that you get the right StabilOx Oxygen Absorber for your needs.



Advantages

- Eliminates or significantly reduces oxygen to decrease the rate of oxidative degradation in pharmaceutical products
- Manages headspace humidity (ERH and drug product free moisture) to reduce the rate of all chemical pathways of degradation
- Packet, Canister, and Label provide exceptional flexibility for any packaging operation
- Adaptable to almost any high-speed dispensing equipment
- All formats supported by Type III Drug Master File

Applications

- Tablets, Capsules, and Caplets in HDPE and Glass Bottles
- Tablets, Capsules, and Caplets, in Pouched Blister Packs
- Metered Dose Inhalers
- Dry Powdered Inhalers
- Pre-Filled Syringes
- In-Process Storage of Pharmaceutical Tablets, Capsules, and Caplets
- Bulk Ingredient Packaging (API, Bulk Pharmaceutical Chemicals)
- Medical Devices
- Diagnostics
- In-Vitro Diagnostics
- Vitamin & Dietary Supplements
- Pre-Filled Syringe Packaging



StabilOx® Oxygen Absorbers Deliver a Level of Protection Not Available with Standard Oxygen Absorbers

Traditional inorganic oxygen absorbers rely on the irreversible oxidation of the scavenger. Since the reaction requires moisture, the moisture must be provided in the scavenger itself, the product, or from the package environment. StabilOx Oxygen Absorbers provide its own moisture to initialize the oxygen removal process from the package.

If oxygen and moisture continue to permeate the packaging, it then relies on package moisture ingress for continued oxygen absorption while establishing an optimal equilibrium relative humidity in the package head space. This is critical in retaining drug performance, stability, and integrity.

Format Choices Offer Flexibility

- StabilOx Specialty Oxygen Absorbers are manufactured in a variety of formats to support many different packaging operations.
- StabilOx Packets offer a rugged, easily-automated product that supports a wide-range of applications and provide nearly seven times the oxygen absorption capacity of competitive packets.

The packets are made from uncoated, welded, medical-grade Tyvek® fibers.

Tyvek® offers superior strength, making the packets virtually puncture proof and eliminating the risk of leakage and product contamination.

- StabilOx Labels are recommended whenever you need a low profile, or affixed absorber.
- StabilOx Canisters are fully compatible with high-speed packaging lines providing nearly seven times the oxygen absorption capacity of competitive canisters.

StabilOx®



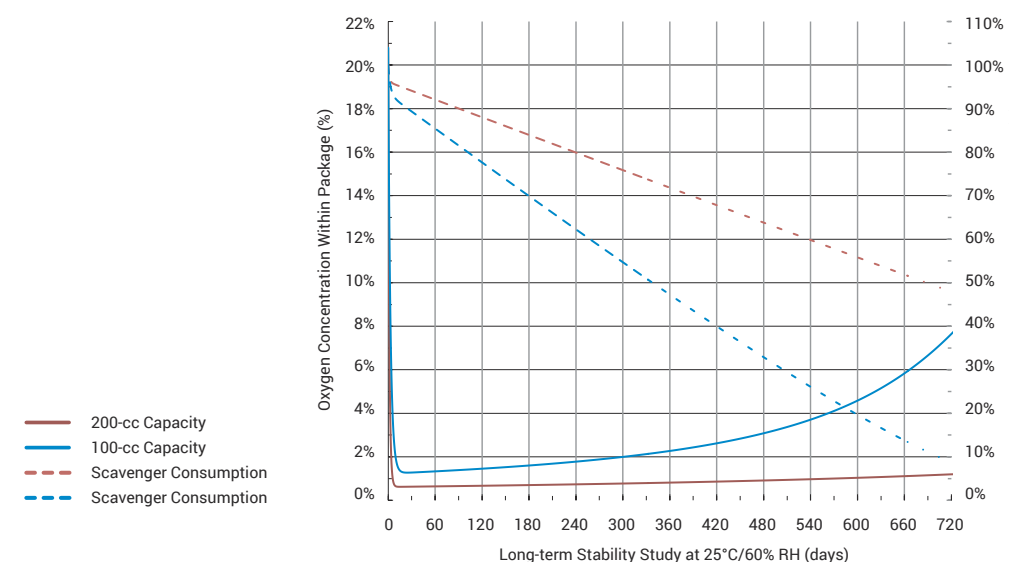
Today's Packaging Demands the Best Oxygen and Moisture Management

Today's drug formulations and innovative packaging choices offer myriad opportunities to attract consumers. At the same time, new packaging challenges create uncertainty. StabilOx Oxygen Absorbers are a unique product that manages moisture and oxygen inside

your package to respond to ever-changing conditions within the packaged environment. This ensures drug stability, as well as performance, and often allows for longer than anticipated product shelf life, increasing product quality and revenues.

Long-Term Stability SimulOx™ Simulation

75-cc Bottle with Drug Product and Oxygen Absorber





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