



BioX[®] GRANULE

➤ HOW IT WORKS

The BioX[®] Pellets are a perfect combination of extremely porous alumina beads mixed with Potassium Permanganate (KMnO₄). Our products take the ethylene gas out of the air to slow down the natural decay process of fruits, vegetables and floral. BioX[®] also controls molds and rots, kills bacteria and removes odors. There are **3 STEPS of Air Purification**:

1. **Physical Adsorption:** particles and microorganisms are being attracted and captured inside the structure of the alumina beads specially designed to offer a great surface of attraction
2. **Disinfection:** Potassium Permanganate is a **natural anti-microbial agent with a pH of 9.2**, much too high for the bacteria to survive a physical contact with the product.
3. **Oxidation:** Potassium Permanganate is an **effective oxidizing agent of the ethylene** and other primary contaminants such as Acetaldehyde, Ethanol, Sulphur compounds (H₂S, SO₂...) and a broad range of Volatile Organic Compounds (VOCs).

BioX[®] oxidizes the ethylene gas with oxygen, converting the pellets into an organic fertilizer ($3\text{CH}_2\text{CH}_2 + 12\text{KMnO}_4 = 12\text{MnO}_2 + 12\text{KOH} + 6\text{CO}_2$). Unlike most other products on the market there are **NO** disposal problems with our BioX[®] Pellets. Our Granule is approved by the FDA and is OMRI & ECOCERT listed (organic compliant).

➤ KEY BENEFITS

- Controls Ripening
- Regulates ethylene levels
- Reduces decay and waste
- Increases storage and shelf life
- Gets rid of airborne microorganisms
- Controls odor cross-contamination
- Maintains fruit pressure
- Helps complying with HACCP requirements
- Organic compliant & FDA Approved
- Cost-effective, safe, and user-friendly
- World-class technical support



➤ PRODUCE-FRIENDLY

The **BioX[®] PELLET** is never in contact with the commodities whatsoever, and therefore it is **not an additive (no residue)** and it is **organic compliant** (OMRI listed). The exhausted residue is **environmentally friendly** (mostly Manganese Dioxide MnO₂) and may be discarded in the regular trash.

➤ SPECS

SPECS	Best Value (BioX [®] 4.0)	Most Popular (BioX [®] 8.0)	Absorbs More (BioX [®] X)
Pellet Ø	3-5mm	3-5mm	3-5mm
% KMnO ₄	4-4.5	8-8.5	10-12
% Moisture	15-20	15-20	15-20
C ₂ H ₄ Absorption Capacity (L/kg)*	2.8 to 3.0	3 to 3.30	4 to 4.20

*Certified Minimum Capacity observed at 25°C

- **Upscale Ethylene Absorption Capacity** ranging from **2.8 to 4.2 liters of Ethylene** per kilogram of product, certified by independent lab tests. All components used in the manufacturing of the final product meet ISO9001 standards.
 - The pellets are packed in **airtight** plastic bags enabling long term storage
 - Each package holds a label with its **control & traceability reference number**:
- BXT100** PRODUCT REFERENCE

0703118.3620.10

DATE OF MANUFACTURE PERCENTAGE KM/104 MOISTURE CONTENT
- Exists in bags of 500gr, 1kg, 2 kg and 5kg (1lb., 2lbs, 4lbs. and 10lbs.), packed in carton boxes or plastic drums. We offer custom packaging upon request.
 - Also available in our popular **disposable/recyclable BP12** and **BP18** featuring **High Air Volume Capacity (HAVC)**:
 - ✓ BP12 is 12*12*12" (30.5*30.5*30.5cm) and holds 25lbs. (11.4kg) of BioX® granule
 - ✓ BP18 is 18*12*6" (45.7*30.5*15.25cm) and holds 13lbs. (5.9kg) of BioX® granule



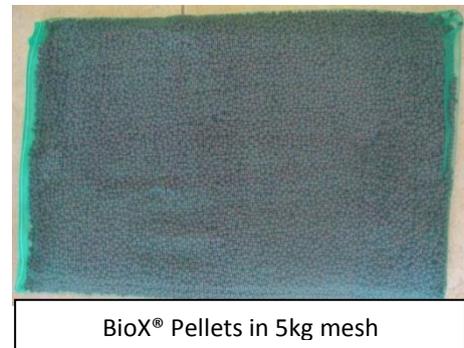
BioX® pellets in 2kg and 0.5kg Bags



BioX® Pellets in BP12 HAVC Module



BioX® pellets in BP18 HVAC Module



BioX® Pellets in 5kg mesh



BioX® in BXT100 Disposable Filter



BioX® in Disposable Sachets