

What is the Product

Always Fresh Containers™



What's nano about it?

- Always Fresh™ indicates that the containers use nanotechnology to release all natural minerals to prevent food from spoiling. While the company does not indicate what this mineral is, it is believed to be silver nanoparticles embedded in the containers.

How does it work?

- Silver (Ag) is a natural antimicrobial agent.
- Most fruits and vegetables generate ethylene gas while ripening.
- The manufacturing indicates that the containers have environmentally-friendly, anti-microbial materials which help absorb food-spoiling ethylene gas.
- Food spoils as a result of either 1. growth of micro-organisms (external) or 2. action of enzymes (internal/cellular).
- Micro-organisms (bacteria, yeast, mold) can cause ethylene gas formation in fruits and vegetables.
- Silver interferes with bacterial growth by disrupting the cell membrane, binding to the DNA of cells, and blocking the metabolism of the bacteria.
- It is believed that silver nanoparticles prevent the micro-organisms from growing and thus eliminate the production of ethylene gas.

Does it have other applications?

- Silver nanoparticles have been embedded in children's toys and baby bottles to prevent growth of micro-organisms.
- Silver nanoparticles are woven into sock fibers to prevent bacterial growth and thus odor.
- Silver nanoparticles are in wound dressings that are used in hospitals for patients with burns and infections that resist treatment.
- Silver nanoparticles have been put into washing machine rinse cycles to enter into fabrics to reduce microbial growth.

Price

- Always Fresh™ containers come in sets of five (varying sizes) and cost from \$9.99 to \$19.99.

Glossary

- Antimicrobial: is a substance that kills or inhibits the growth of microbes including bacteria, viruses, and fungi. Translucent: Materials that allow light to pass through them only diffusely, and cannot be clearly seen through.

This information came from:

[Http://www.alwaysfreshcontainers.com](http://www.alwaysfreshcontainers.com)

<http://blog.asseenontvnetwork.com/products/always-fresh-containers-as-seen-on-tv-food-storage%20review/>

Definitions came from:

[http://en.wikipedia.org/wiki.Main.page](http://en.wikipedia.org/wiki/Main.page)



www.NNIN.org