



Sealing your success: Modified Atmosphere Packaging

Extending Shelf Life, Boosting Product Appeal



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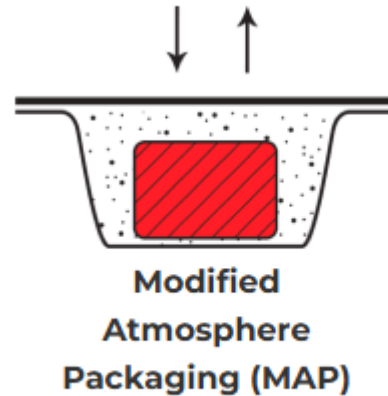


Why Modified Atmosphere Packaging (MAP), and.. What IS it?

- MAP is the removal of Oxygen from inside a package and replacing it with inert gas, such as Nitrogen or Carbon Dioxide.
- MAP Has been proven to enhance the shelf life of a variety of products.
- Slows spoilage
- Prevents oxidation
- Inhibits microbial growth
- Enhances product freshness and appearance

How does it work?

There are various technologies at play, but with a quality packaging system, it is incredibly simple for the operator.





Types of MAP: Gas Flushing

Definition:

- Injects inert gas (e.g., nitrogen) to displace oxygen (gases are heavier than oxygen)

Advantages:

- Faster Speed
- Affordable and simple
- Good for Meats and Poultry

Disadvantages:

- Uses more gas, cannot fully displace oxygen effectively (higher residual oxygen), Cannot fully evacuate products like bakery goods, will blow ingredients around inside the package, older technology.

Vacuum Gas Flush (VGF)

Definition:

- Combines light vacuum with gas injection

Advantages:

- Removes more oxygen with extremely low oxygen residual (<.01%)
- Extends shelf life further than gas flush
- Retains product shape vs. VSP
- Extremely versatile for a variety of product
- Battles out-gassing for product that emits gas (onions, etc.)
- Best for: Meats, pasta, dairy, prepared meals

Disadvantages:

Higher initial equipment investment



Vacuum Skin Packaging (VSP)

- **Definition:**

- Full vacuum packaging, 100% removal of atmosphere with a heat-formed skin film

- **Advantages:**

- Excellent shelf life
- Strong product visibility
- Leak-proof, no purge
- Can display meals upright
- Superior for shipping product

- **Limitations:**

- Highest cost
- Slower speeds
- Best for flat/solid items



Unique Packaging Formats



Types of Equipment- the right choice for your operation



Semi Automatic



Medium Production



Large Production



Fill/Seal



To learn more about packaging technology:



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