

Hi-Tech

MODIFIED  
ATMOSPHERE  
PACKAGE  
TECHNOLOGY







# map tech

## MODIFIED ATMOSPHERE PACKAGE TECHNOLOGY

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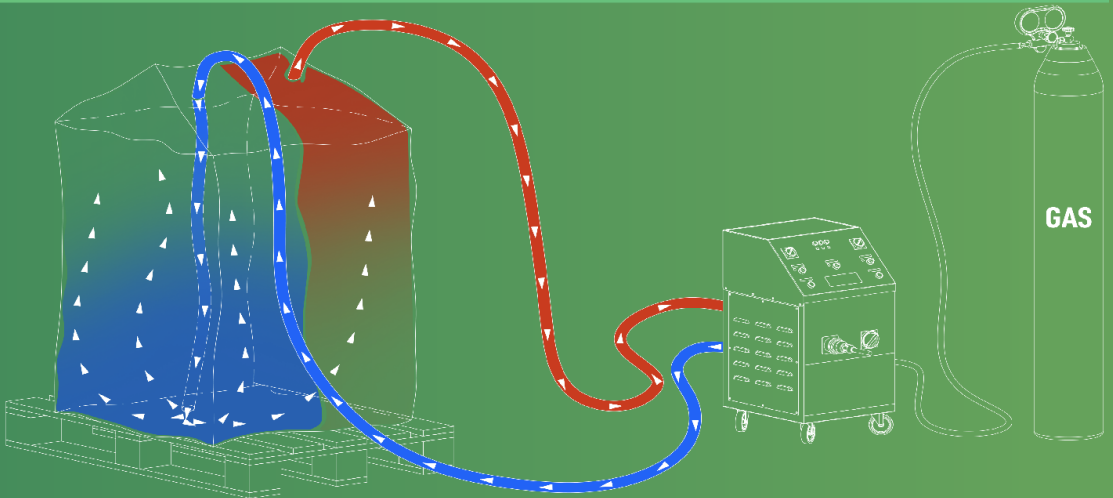
It is the process of fumigation of organic or conventional products without using chemicals.



# Why Modified Atmosphere Technology?

Variation of humidity in conventional methods factors such as mould, taste difference, odour and product pests in the package have become a nightmare for manufacturers and exporters for years, especially since organic products cannot be fumigated with chemical fumigants. This situation has caused and still been causing significant loss of product and earnings.

With our MAS Technology, we have implemented in companies that produce, store and export many products such as hazelnuts, grains, legumes, nuts, oil-free or oil seeds, coffee, cocoa, dried fruits, tobacco and cut flowers, and as a result of long research performed by our expert staff and experienced team on this subject, we have implemented the Modified Atmosphere Technology system, which eliminates the existing problems and increases the product quality.



# MAS<sup>®</sup>

## Modified Atmosphere System

**Modified Atmosphere System is a system which creates an environment in which the product will not be damaged and maintain its freshness by evacuating the oxygen in the environment to the product placed in MAP types during the storage, transportation, and packaging of the food, out of the MAP with gases adequate for food such as carbon dioxide and nitrogen.**



An oxygen-rich environment leads to the growth of large numbers of bacteria and moulds, reducing the quality of food products. Therefore, the shelf life of the product is increased, many food products retain their first day freshness for a long time, and the product is transported fresh and sterile by protecting it from water, mould, moisture, insects, larvae, live or inanimate pests which may come from outside during the shipment of food or non-food products in domestic and international transportation with the Modified Atmosphere Technology.

The gas composition to be applied to the product varies according to the chemical, microbiological and physical properties of the food or non-food product.





**MAVS<sup>®</sup>**

After taking the atmospheric measurement values in the package on different days after the process, a new atmosphere is provided again by means of MAVS if necessary.





# MAPS®

MAPS Modified Atmosphere is a hot-jaw strength PP film welding machine that is used to seal the package after it is filled.

Thanks to its easy use, it provides all kinds of PP film packages with variable micron thickness to be closed and fully isolated.





# MAP BAG®



It is an isolation and atmosphere modifying package specially designed to protect your products packed in such as parcels, sacks, kraft paper, etc.



Modified Atmosphere Package is produced using airproof and gasproof PP film with Polyamide and Polyethylene structure and EVOH Technology. It works with the air valve, gas valve and gas pipe on it. It is sterile and hygienic, and suitable for food.

PP film ensures with its airproof feature that the product protected in the package stays fresh for a long time, as well as it prevents the contamination of vectors harmful to the product from outside and stops the development of eggs and larvae that may be in the product. Map Bag, whose atmosphere has been changed, is preserved during the logistics and storage period.





# MAP BIG BAG



BIG BAG with insulation and atmosphere change package specially designed to protect your products such as hazelnuts, walnuts, nuts, grains, dried fruits etc.

Modified atmosphere package is a sterile and hygienic special atmosphere modifying and isolation package suitable for food, using air and gas-proof PP film with polyamide and polyethylene structure and EVOH Technology, working with air valve, gas valve and gas pipe on it.

It is placed in BIG BAGs made of 200 gr laminated fabric, and it is produced from 300 kg to 2000 kg in standard sizes and sizes suitable for your process and put into your service.







Thanks to MAP BIG BAG's airproof feature and high strength BIG BAG sack, MAP BIG BAG keeps the product in the package fresh for a long time, prevents the contamination of vectors harmful to the product from outside, and stops the development of eggs and larvae in the product.

The product, which is protected and whose atmosphere has been changed, is preserved during the logistics and storage period.





# MAP LINER BAG®

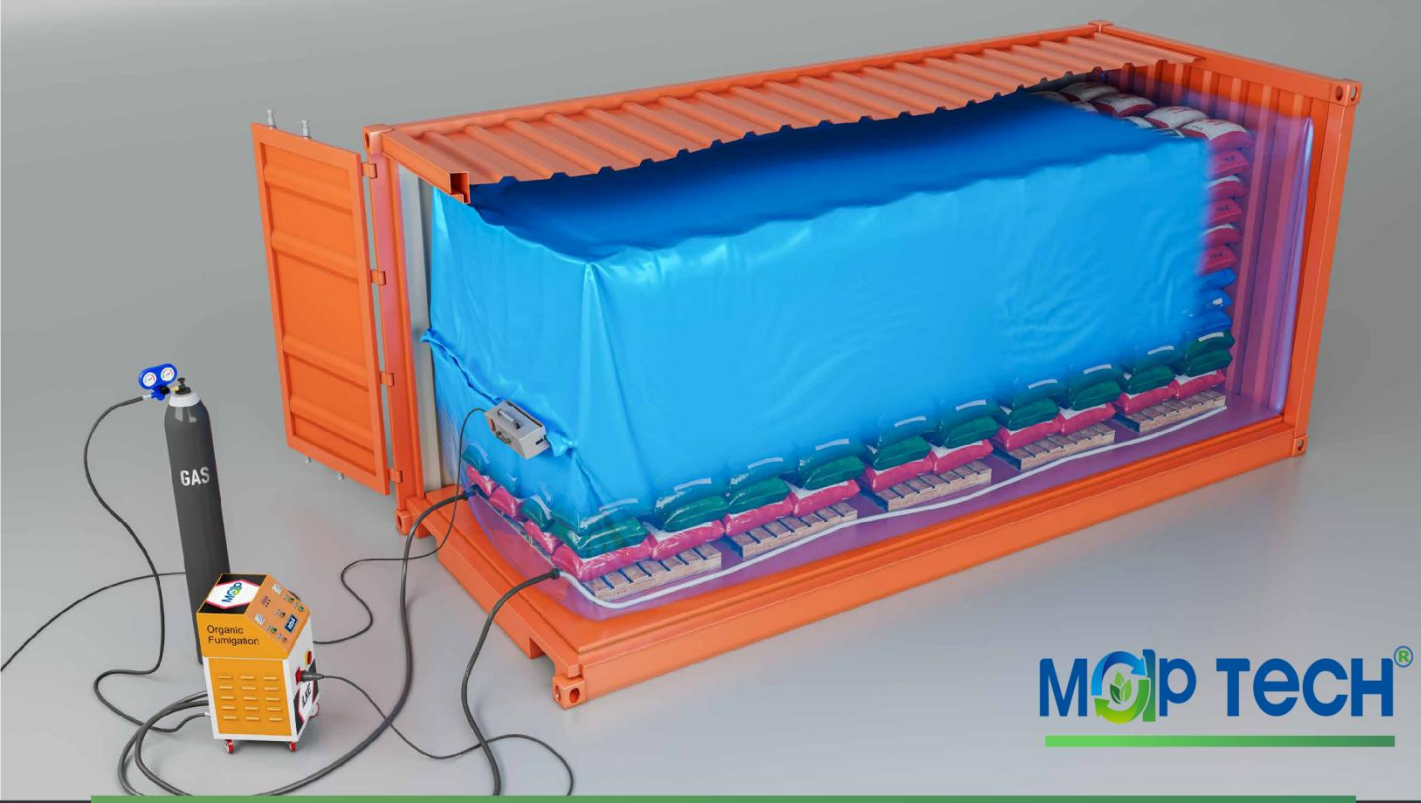


The MAP LINER BAG, which protects your products such as hazelnuts, walnuts, grains, pulp, pelleted pulp, dried fruit, leaves or chopped tobacco, cut flowers, etc. in parcel packages or in kraft bags is a high-strength insulation and fumigation package specially designed for loading vehicles such as shipping containers, open or closed flatbed trailers and open or closed truck haulage.

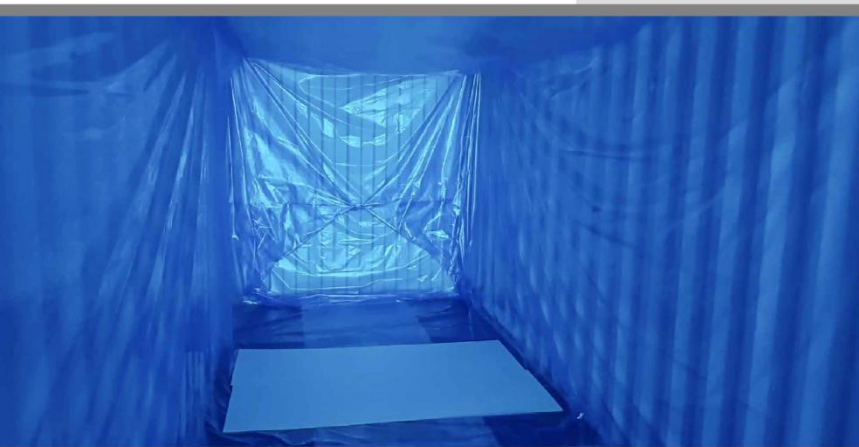


Because shipping containers and vehicle bodies do not have full insulation, organic or conventional fumigations performed inside of them cannot be successful. Successful fumigation process is possible with the right insulation. At this point, MAP LINER BAG provides a correct and successful fumigation environment with its easy assembly and full isolation.





Map liner bag, which is sterile and hygienic atmosphere modifying package suitable for food, produced using air and gas-proof PP film with polyamide and polyethylene structure and EVOH TECHNOLOGY, working with the air valve, gas valve and gas pipe on it, is specially produced according to the sizes of your loading cabin and put into your service.



MAP LINER BAG ensures with its airtight feature and impact-resistant structure that the product, which is protected in the package, stays fresh for a long time, prevents the contamination of vectors harmful to the product from outside, and stops the development of eggs and larvae that may be in the product.

Product which is taken under protection is preserved during logistic process.



# MAP DEPO BAG<sup>®</sup>



Map Depo Bag is a high-strength insulation and fumigation package that provides an organic or conventional fumigation environment in factories, warehouses, storehouses, workshops and external storage areas without an insulated fumigation room or cabin.



Map Depo Bag, which is sterile and hygienic atmosphere modifying package suitable for food, produced using air and gas-proof PP film with polyamide and polyethylene structure and EVOH TECHNOLOGY, working with the air valve, gas valve and gas pipe on it, is specially put into your service according to the structure of your application area as minimum 10, maximum 110 cubic meters.



With its airtight feature and impact resistant structure, Map depo bag not only ensures that the product, which is protected in the package, remains fresh for a long time, but also prevents the contamination of vectors harmful to the product from outside, and stops the development of eggs and larvae that may be in the product.

Product which is taken under protection is preserved during logistic process.



# ® MAS GAS MEASURING

The protection package, of which atmosphere is changed, is performed by using gas measuring devices that are periodically calibrated by the authorized service during the change, and by continuously measuring through the valve on the package.



Thanks to the valves on the package, of which atmosphere is changed, atmospheric gas measurement can be made on request, besides the atmosphere in the package can be changed with another food gas or non-food gases if necessary.

In this way, it provides the opportunity to measure the atmosphere and report the gas values during the period the products are under protection.





# MAP SMALL BAG<sup>®</sup>





# MAP IBC LINER BAG<sup>®</sup>



Our IBC liner bag normally used with IBC Units and different dimensions, we can make the bag from 1,000 Litre to 1,500 Litre with different style filling fitment and discharge spouts. The IBC liner could be standard materials or high barrier for some of the liquid foods e.g. sauces, juices some liquid chemicals.

Our barrier materials normally are Codex EVOH and Metalized laminates. We also offer customs made dimension to suit each IBC units.





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