

Lifepack[®]

modified atmosphere technology



Extend life of fresh produce

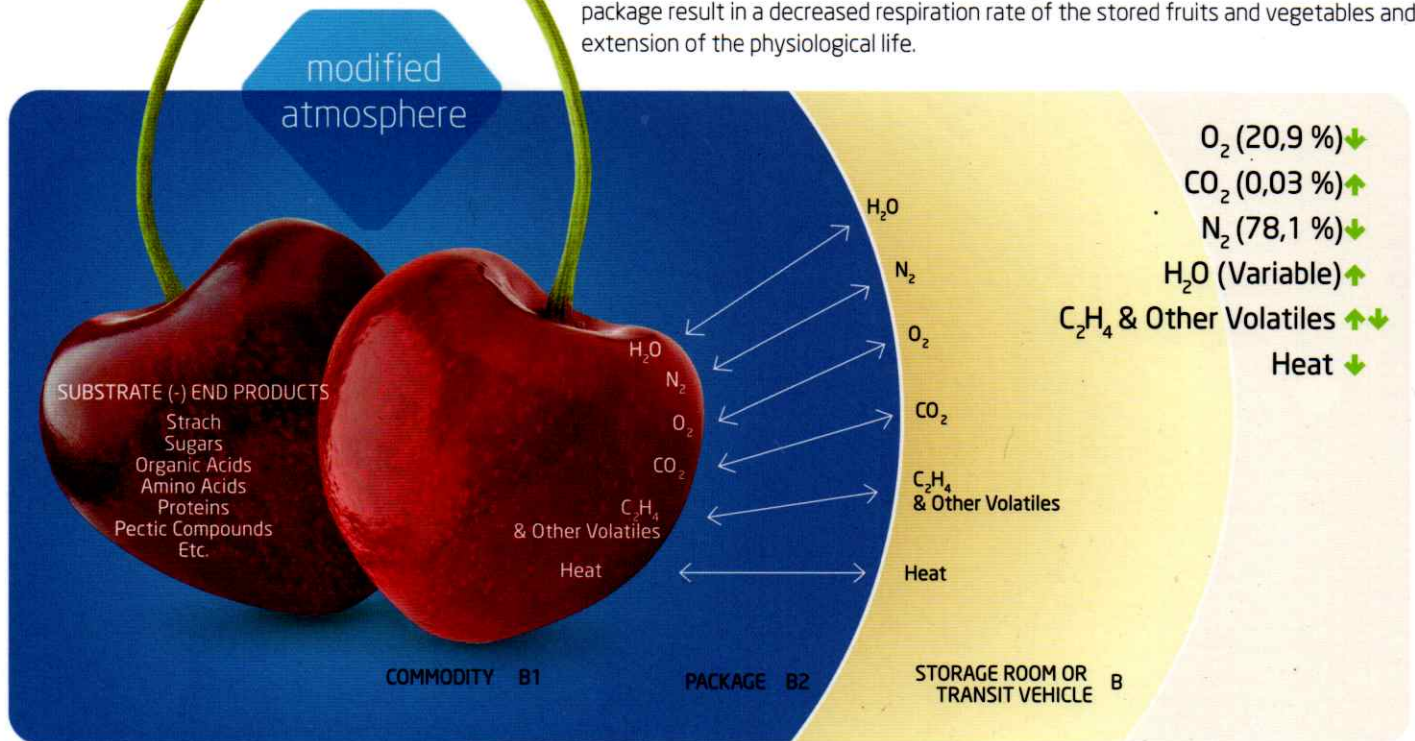
LIFEPACK[®]
FOR VEGETABLES
FOR FRUIT

With Lifepack
always fresh



what is modified atmosphere packaging (MA/MH)

MAP is based on the alteration in the composition of gases around the certain commodity within the sealed package. Elevation in the CO_2 level along the decreased O_2 level in the package result in a decreased respiration rate of the stored fruits and vegetables and extension of the physiological life.



Variables controlled by intelligent Agrolife Bags to extend storage and shelf life

what is the mode of action of Agrolife

Aypek MA/MH Bags are manufactured from a semi-permeable film that can control gas exchange. The semipermeable character of the film is based on the activity of several intelligent molecules placed inside film. These molecules allowed O_2 to enter the package at a rate offset by the consumption O_2 by the commodity. Similarly, CO_2 must be vented from the package to offset the production of CO_2 by the commodity. Furthermore, this atmosphere must be established rapidly and without creating

anoxic conditions or injuriously high levels of CO_2 . Aypek MA Bags vents the released ethylene gas from the modified atmosphere and thereby, eliminates the possibility of acceleration of ripening then senescence and deterioration and decay. Aypek MA/MH Bags enriches the modified atmosphere with sufficient relative humidity and completely inhibits the weight loss. In contrast, it never creates a water-saturated atmosphere that will cause microbial spoilage of fresh produce.

technology

The levels of the gases accumulated in the Aypek MAP are determined by the respiration rate of the commodity, the storage temperature, the ratio of produce weight or surface area to the area of semi-permeable film, and among other factors. The polymer engineers who developed the Aypek have made major advances in the technology of Aypek MA/MH Bags and these advances keep Aypek very competitive and successful in the fresh produce market. The film has very unique properties.

- Permeability with temperature,
- Increased gas diffusion by using microperforations
- Machinability
- High printability,
- Sealing integrity,
- High clarity

