Vacuum Packing

Fact Sheet and Hygiene Rating Improver



Vacuum-packing is a popular way of extending the shelf-life of food products without affecting the quality. It is a very good way of preventing food spoilage, but it can create conditions which may lead to growth of anaerobic bacteria (bacteria that grow better without oxygen), such as Clostridium botulinum. This organism can multiply and produce toxin at temperatures as low as 3°C. The toxin produced is heat-stable which means it will not be removed by normal cooking. Poisoning from Clostridium botulinum toxin is fatal in 20-50% of cases, with early diagnosis and treatment essential to survival.

It is imperative, therefore that this organism is controlled by correct storage temperatures and the application of, and adherence to, an appropriate use-by date. Vacuum-packed products should be assigned a shelf-life of not more than 10 days, when stored between 3-8°C. Longer shelf-lives can be achieved by guaranteeing storage below 3°C (e.g. by freezing the product) or other preservation methods such as high salt content or low pH, but this should be ascertained on a product-by-product basis through research or testing.

For Businesses Using a Vacuum Packing Machine

You need to implement a HACCP-based food safety management system to control the particular hazards associated with the use of the vacuum packing machine:

The following issues should be covered in the HACCP pan:

- The shelf-life assigned to vac-packed food stored between 3-8°C should be not more than 10 days, unless other preservation methods are used.
- Raw and cooked foods must not be vacuum-packed on the same machine.
- Poor quality foods should not be vacuum-packed in an attempt to extend the shelf-life. Vacuum packing cannot improve the safety or quality of a food.
- You must ensure that the vacuum-packing machine is in good working order and is regularly checked and maintained.
- Vacuum-packing a product more than once should be avoided, as it becomes impossible to accurately assess its shelf-life.
- You must ensure that every product is properly sealed in order to maintain the correct atmosphere inside the packet. You should carry out regular checks on the effectiveness of he sealing of the machine. You can do this by vacuum-packing a thick damp cloth. Place it is a bowl of water and check that no air bubbles are visible.

Thanks given to Chiltern District Council for sharing the information on this fact sheet.

• Clear use-by dates should be indicated, and if this relies on correct storage temperature this too must be stated near the date mark. Labelling must comply with current food labelling regulations.

It is particularly important not to use vacuum-packed food past its use-by date. It is quite possible that out-of-date food that looks and smells acceptable could be unsafe for consumption.

See our Food Safety Management Fact Sheet for more detailed information on developing a HACCP Plan.

The Food Standards Agency has also produced a factsheet for businesses: http://www.food.gov.uk/multimedia/pdfs/publication/vacpack0708.pdf

FOOD HYGIENE RATING Eating out? Getting food in? Check food.gov.uk/ratings

STEP	IMPROVE MY RATING	Done
1	Do I have a specific documented HACCP Procedure for use of the Vacuum	
	Packing Machine?	
2.	Do I have a shelf life of 10 days or less for vac-packed food stored chilled	
	between 3-8°C?	
3.	If I have a shelf life or more than 10 days I have carried out specific	
	laboratory testing of the make-up of the product, e.g. ph, water activity etc	
4.	I have devised a test to ensure the effectiveness of the seal of the packet.	
5.	Once vacuum-packed the product is stored under refrigeration.	

For more food safe factsheets visit <u>www.west-norfolk.gov.uk/default.aspx?page=21420</u>

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