

What are Oxygen Absorbers? Here is All You Need to Know

If you're a seasoned veteran in the food manufacturing or pharmaceutical industries you're probably a guru when it comes to the inner workings of oxygen absorbers, their benefits & applications. However, if you've never deep dove into what lays beneath the plastic sachet this article is for you!

What are Oxygen Absorbers & How do they work?

Oxygen Absorbers are specific products designed with the intention of removing or reducing the amount of oxygen inside of enclosed packaging. There are many different delivery methods for oxygen absorbers including barrier bottles (Oxynov™), canisters (Pharmakeep®) and most commonly sachets.

Oxygen Absorbing sachets are created by storing a material such as iron powder inside a permeable composition of membrane, this allows the oxygen in the space to travel through the membrane to the iron powder where a reaction occurs turning the powder into iron and eliminating oxygen in the process.

What are Oxygen Absorbers used for?

As previously explained Oxygen Absorbers are commonly used to remove oxygen from the inside of enclosed packaging, this is particularly useful when attempting to increase the shelf life of a product (eliminating the development of mould) or keep it safe from reacting to oxygen.

Studies have found that Oxygen can cause both food and pharmaceuticals alike to degrade, it does so by encouraging the growth of microorganisms (resulting in mould, yeast and other fungal growth), oxidizing enzymes (speeding up chemical reactions in the product) and oxidizing lipids (which attack other fats in the food/product).

What types of products need oxygen absorbers?

There are a wide array of products across different industries that need or benefit from the implementation of oxygen absorbers, some of those are as follows:

1. Processed, smoked, and cured meats
2. Nuts and snacks
3. Flour and grain items
4. Freeze dried & processed pet treats & food
5. Bakery Items like bread, cookies, cakes, and pastries

6. Coffee and tea
7. Spices and most of the other seasonings
8. Protein Powders
9. Probiotics
10. Gummies & Capsules

How do I know if I require Oxygen Absorbers in my packaging?

If you're unsure whether your products require Oxygen Absorbers or would like to learn more about our high quality yet affordable Oxygen Absorber product offerings, please feel free to send us an email at the following: sales@alchemypp.com.au.

Alchemy Performance Packaging is an industry leader at supplying Australian and New Zealand businesses with high quality packaging products in the nutraceutical, pharmaceutical and food & beverage markets.