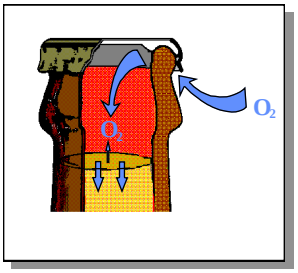
Pelliconi	INFORMATIVE DOCUMENT	Issue: 2012/03/07

Oxygen Scavenging Crowns

General features

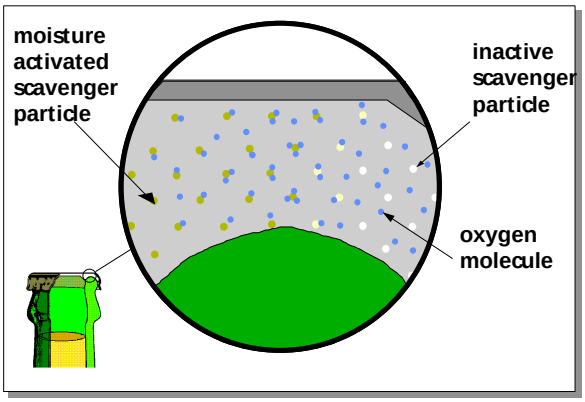
Intermediate skirt pry-off Oxygen Scavenging Crowns have a particular PVC-FREE liner that offer an effective means of both controlling oxygen ingress and removing some of the headspace oxygen present in the bottle immediately after filling.

Functioning



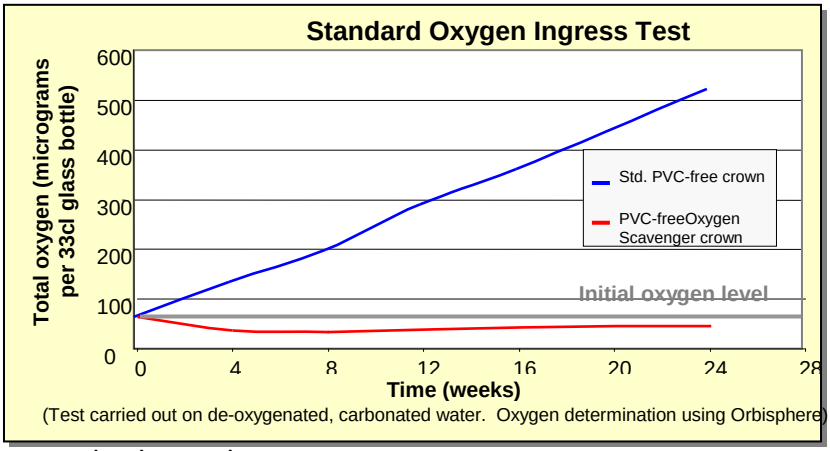
In a package comprising a metal crown on a glass bottle, both the bottle and crown are impermeable to oxygen. Therefore the only path by which oxygen can enter the package is by permeating through the crown liner and into the headspace of the bottle.

Oxygen Scavenger, or Absorber, is a food contact approved material dispersed throughout the liner compound which, once activated by moisture from the beer or beverage, react with molecular oxygen to produce stable end-products.



Absorbers perform two beneficial roles in protecting bottled beer against oxidation: first, they react with any oxygen which would otherwise permeate through the crown liner before it enters the headspace, thus assuring an effective barrier. Second, they react with available oxygen already present in the headspace of the bottle (introduced during the filling process).
As the graph below shows, this provides a level of oxygen protection, both from oxygen ingress and entrained air, which is significantly greater than that offered by normal PVC-FREE liners.

The scavenger PVC-free is capable of providing a total barrier to oxygen ingress over a typical **six month** shelf life.



(Test carried out on de-oxygenated, carbonated water. Oxygen determination using Orbisphere)

Features

- Availables with both Sacmi 916 and 923 profile;
- EU and FDA compliant, suitable for use on aqueous, acid and low alcohol content beverages, pasteurisation resistant.