

Application : Cereals packs

Leaks to be detected : incorrect sealing (product inclusion, folds, seal bar defects)

Specifications : Sample test, non-destructive

Solution : ASC 7400S Leak tester

Operation : Operator puts pack in test chamber and closes lid. The instrument locks the lid and the cycle starts. Gradually, a vacuum is installed in the chamber, which causes the pack to inflate.

It makes contact with a sensor in the lid, which measures the pressure inside the pack.

This pressure gradually increases.

When the target pressure is reached, the vacuum is stabilised and after a short stabilisation time, the internal pressure decay (ΔP) is measured during a few seconds. This ΔP is compared to a reject level : a ΔP exceeding the limit indicates insufficient level of airtightness. The red light comes on and the lid remains locked.

To unlock it, the operator must press an "Unlock process" button.

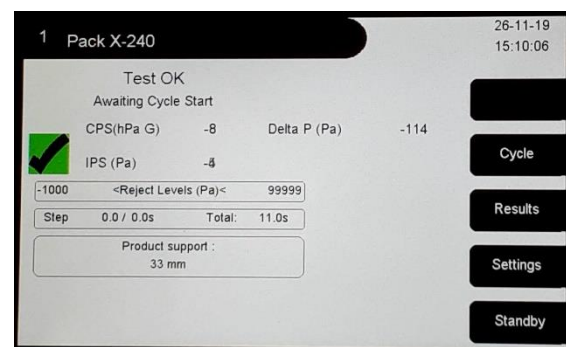
A ΔP below the reject limit means the airtightness is in spec : the green light comes on and the lid opens.



Cereals pack



ASC 7400S – Non-destructive leak tester for flexible packaging



Screen indicating correctly sealed pack : $\Delta P = -114$ Pa for a limit at -1000 Pa

Cycle time: 10 - 20 s

Typical detection range on this application : leak flow 5 – 20 std l/h.