

## SAFELY MEASURE THE TIGHTNESS AND STRENGTH OF THE SEALS ON YOUR PACKAGING WITHOUT SEPTUMS



### BENEFITS

**Reduce testing costs** : No consumables

**Automatic** : The operator can concentrate on other tasks

**Safe to use** : No handling of the needle (automatic cleaning)

**Testing protected from outside interruptions**

**Dry tests** : Hygienic, no source of bacterial growth, easy to clean

**Reliable data for packaging stage** from the R&D stage onwards

**Measure the impact of machine settings** on the overall integrity of the packing

## How can you test the integrity of your packaging and ensure your product is properly preserved ?

**OXYLOS<sup>®</sup>**, **ABISS<sup>®</sup>** branded product is not just a detector. This automated measuring instrument is ideal for production, offering you solutions to control the quality of your packaging. Its easy-to-use interface has been designed to be easily understood and used by everyone.

### **OXYLOS<sup>®</sup> measures:**

- The flow rate of leaks down to 5 µm
- The creep test of the packaging
- The strength of seals up to 1.4 bar

**OXYLOS<sup>®</sup>** adapts to your production constraints and proposes positioning tools adapted to your formats in order to reduce operator-related uncertainties.

### FEATURES

- Automated micro-leak + creep test + seal strength measurements
- Meets standards  
**DIN 55508-1** : measures flow rate at constant pressure  
**ASTM F1140** : seal strength  
**ASTM F2054** : burst test
- Greater sensitivity in very low overpressure:  
**micro-leaks down to 5 µm at over 10 mbar**
- **Option: synchronisable on the production line** interfacing with the conveyor
- **Wholly traceable:** use all data analysis possibilities via USB, Ethernet, or directly in your ERP system
- **Remote connection and 24/7 remote maintenance**

### SCOPE OF APPLICATION

**OXYLOS<sup>®</sup>** is used in the food processing, cosmetics, and pharmaceutical industries for all types of packaging including vacuum sealed, flexible, rigid, semi-rigid, and metal membrane sealed.

## HOW DOES IT WORK?

### 1. Select the programme

Select a program and place the product into the test chamber. The packaging is automatically pierced without a septum (a suction cup is used to avoid leaks).

### 2. Start the test

#### LEAK MEASUREMENT

The device measures the airflow needed to maintain a set overpressure in the packaging.

Leaks are shown metrologically in ml/min and equivalent  $\mu\text{m}$ .

#### CREEP TEST

Application of a constant test pressure to the packaging and monitoring of flow and pressure as a function of time.

or

#### BURST TEST

Pressure is applied to the package to measure the pressure needed to burst the package.

### 3. End of the test

The compliance of the results is shown in colours compared to the preconfigured thresholds.

At the end of the test, the needle is cleaned automatically.

## SPECIFICATIONS

### OXYLOS<sup>®</sup> LEAK AND BURST TESTER

<b>Device</b>	Automated table analyser with IP65 connectivity in aluminium and stainless steel with 7" colour touchscreen.
<b>Weight and dimensions</b>	28 kg - L 560 mm x H 495 mm x D 473 mm
<b>Power supply</b>	100-250 VAC -50/60 Hz - 63 W
<b>Compressed air</b>	4 to 6 bar (dry and oil-less) filtered to 20 $\mu\text{m}$
<b>Ports</b>	1 USB 2.0 and 1 RJ45 Ethernet
<b>Features</b>	Laser positioning tool for sample Clogged circuit detector Complete traceability Remote connection Analytical curves (displayed and recordable) Integrated statistics report

#### LEAK MEASUREMENT - Standard DIN 55508-1

<b>Technology</b>	Mass flowmeter
<b>Precision</b>	+/- 0.8% full scale ( $\mu\text{m}$ ) +/- 1% of the reading + 0.1 ml/min
<b>Resolution</b>	0.1ml/min - 1 $\mu\text{m}$
<b>Measurement</b>	0.1-500 ml/min - 5 $\mu\text{m}$ to 500 $\mu\text{m}$
<b>Pressure</b>	Adjustable from 10 to 500 mbar
<b>Flow</b>	Filling: 6500 ml/min

#### CREEP TEST Standard ASTM F1140

#### BURST TEST Standard ASTM F1140

<b>Technology</b>	Piezoresistive barometer	Piezoresistive barometer
<b>Precision</b>	+/- 0.5% full scale	+/- 0.5% full scale
<b>Resolution</b>	1mbar	1mbar
<b>Measurement</b>	200 - 500 mbar	0.2 - 1.4 bar
<b>Pressure</b>	500 mbar	Up to 1.4 bar
<b>Flow</b>	Filling: 6500 ml/min	Inflation: Minimum 250 L/h

### OPTIONS AND ACCESSORIES

- **New:** Non destructive test on non sealed trays (The 2021 Packaging Award)
- Online device synchronised with the conveyor
- 3G router + HMI Advanced
- Can interface with ERPs
- 2nd Ethernet port to isolate the internal from the external network
- The calibrated leak to control the leakage measurement
- The barcode reader select faster the test program
- The pressure regulator with filter for compressed air
- Placement tool
- Hopper reduction accessory (small formats)
- The needle cleaning tool

### DEVICE DELIVERED WITH

- Calibration certificate
- Mains cord
- Metal detectable stylus
- 2 L buffer tank with air conditioner, pressure reducer and switching valve

Technical data may change without pre-notice considering the tensions on the market for the supply of electronics components.