

# TESTING COFFEE CAPSULES

Coffee Capsules serve as preservation and protection of their content. Since coffee is a very sensitive product the standards of the packaging have to be high, to keep the aroma and flavor.

Oxygen and moisture are two of the major risks for the quality of coffee. To keep the taste of the coffee great, the packaging has to keep the oxygen out, and manage the moisture level and carbon dioxide.

With the leading technology of MOCON's Permeation and Package Testing instruments you are able to detect weak points and improve your quality specifically.

Our solutions to make your coffee perfect:

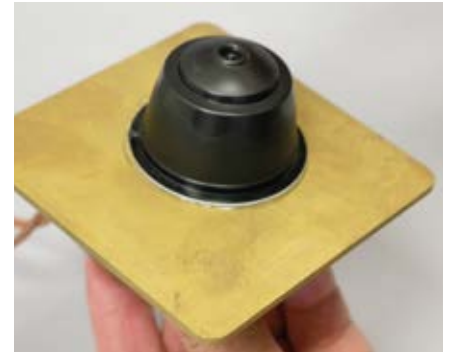
OX-TRAN MODEL 2/22 – Oxygen Permeation/Barrier testing

PERMATRAN-W MODEL 3/34 – Water Vapor Permeation/Barrier testing

Coffee is sensitive to oxygen and moisture coming from the ambient air. With the instruments OX-TRAN and PERMATRAN-W it is possible to check the barrier of the capsule, with or without lid, against these influences. It is measured how much oxygen or water vapor penetrates into the capsule.



The capsule is applied with 2-component epoxy



The package adapter with the coffee capsule is fixed to the measuring cell



Intuitive touch screen



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### 3. OpTech O<sub>2</sub> Model P – Gas/headspace analysis

The OpTech technology uses an optical sensor that will “fluoresce” or give off light directly related to the amount of oxygen present in the capsules headspace. By inserting the optional needle attachment into the capsule an accurate reading of oxygen concentration can be made without extracting a sample.

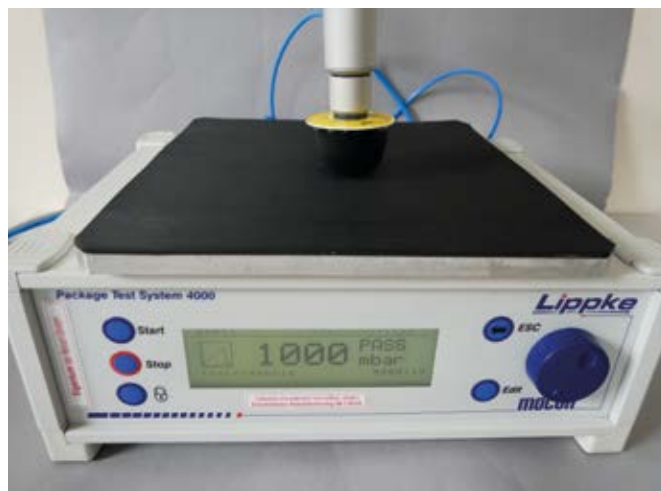
### 4. Lippke 4000 – Leak detection/Seal strength

The Lippke 4000 is a bench top instrument designed to perform many currently accepted leak test methods. It measures seal strength and package integrity of the coffee capsule and meets applicable and ASTM Standards.

*OpTech O<sub>2</sub> Model P – Gas/headspace analysis*



*Lippke 4000 – Leak detection/Seal strength*



**To discuss your personal coffee capsule application or challenges, contact your local MOCON representative.**