

NEW
STUDY

Coffee Capsules: Barrier Performance Comparison

New study reports the barrier performance of several commercially-available capsules from various systems on the market.

Capsule data includes:

- Oxygen and water vapor permeation
 - entire capsule
 - capsule body
- Overall dimensions
- Minimum wall thickness in the barrier area
- 3D scan determining the active surface for barrier
- Identifying the manufacturing process
- Calculated barrier reported to the exchange surface
- Layer structure analysis by FTIR microscopy (*opt*)



Results will be split into 3 key areas of interest.

- Oxygen barrier
- Water vapor barrier
- Capsule structure (*layer analysis*)

Summary mapping of the various results:

- Full capsule in cc/pack
- Full capsule in cc/m² (*permeation reported to the exchange surface*)
- Capsule body in cc/pack
- Capsule body in cc/m² (*permeation reported to the exchange surface*)

Sample report and data are available

This study will cover a wide selection of commercially available capsules. Samples will include brands from *Autobar Barista, Best presso coffee, Bialetti o-system coffee, Cafissimo coffee, Capsa Dallmayr™, Delizio Coffee, Keurig® K-Cup coffee, Keurig® Rivo coffee, Keurig® Vue coffee and Keurig® Vue Milk, Lavazza, Nespresso®, Nestlé® Dolce Gusto coffee and milk, Starbucks® Verismo® coffee and milk*

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