

μ -CTE™ SPF Sample Cutter



Instruction for use

PRODUCT REFERENCE:

μ -CTE SPF Sample Cutter

M-SPFSC-250



1. Introduction

The μ -CTE SPF sample cutter (part no. M-SPFSC-250) enables circular samples of spray polyurethane foam (SPF) and other soft materials to be cut quickly and simply, for consistent, reproducible sample emissions testing using the micro-chamber/thermal extractor™ (μ -CTE™).

2. Components

The SPF sample cutter is designed for use with the μ -CTE-250™ (part nos. M-CTE250I and M-CTE250TI). It comprises three components:

- A sample cutter.
- An ejection disk.
- An A5 cutting mat.

The following additional tools may also be required. These are not supplied with the SPF Sample Cutter.

- A cutting tool, to adjust the height of the sample.
- Additional spacers, to raise the sample to the correct height in the μ -CTE sampling pot. These are part of the μ -CTE shipping kit, and can also be purchased separately if required.

3. Preparation

The sample cutter and ejection disk are constructed from stainless steel to minimise contamination. However, cleaning may occasionally be required depending upon the type of sample they are in contact with.

Recommended procedure:

- [1] Rinse twice with freshly distilled water.
- [2] Rinse with methanol and wipe with a lint-free cloth.
- [3] Leave to air-dry.

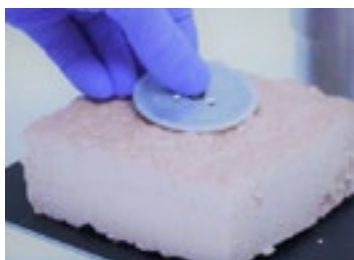
CAUTION Care should be taken to avoid contact with the cutting edge of the sample cutter.

If the tools are not being used immediately, store in a clean, dry environment.

4. Cutting the sample material

Recommended procedure:

- [1] Prepare the sample material for cutting by trimming it to approximately 12 cm × 12 cm, with a maximum thickness of 8 cm.
- [2] Place the sample material on the cutting mat and position the ejection disk on the surface of the sample material.
- [3] Align the sample cutter over the ejection disk, and slowly apply an even downward pressure until it has completely cut through the sample material. Twisting the cutter slightly may assist this process.
- [4] Slowly push down on the ejection disk until the sample material is released.
- [5] To achieve the desired headspace in the chamber, the sample material may need to be trimmed to an appropriate height. For reference, the height of the μ -CTE-250 chamber is approximately 3.6 cm.
- [6] Transfer the sample material to one of the chambers of the μ -CTE-250. The fit should be snug, to minimise emissions from the side of the sample material.



Step [2]: Positioning the ejection disk on the sample material.



Step [3]: Cutting the sample material.

5. Cleaning and storage

After sample preparation, the sample cutter should be wiped down with a solvent such as methanol on a lint-free cloth. It should then be stored in a clean, dry environment.

After storage, we recommend that the sample cutter is re-cleaned before use.

CAUTION Care should be taken to avoid contact with the cutting edge of the sample cutter.

6. Specifications

6.1 Sample cutter

- Inside diameter: 6.4 cm (2.5")
- Weight: Approx. 0.42 kg
- Specimen area: Approx. 32 cm²

6.2 Cutting mat

- Width: 14.8 cm (5.8")
- Length: 21.0 cm (8.3")

6.3 Suitable specimens

- Material thickness: Approx. 8.0 cm (3.1")
- Material types: SPF, soft materials

NOTES

The μ -CTE SPF Sample Cutter was designed and tested for SPF samples. While the sample cutter can be used on soft materials with similar properties, these have not been tested.

7. Contact details

For technical support, please contact your supplier in the first instance. If they are unable to resolve your query, please contact Markes International's service department:

E: support@markes.com

T: +44 (0)1443 230935

W: www.markes.com

For an instructional product video, please visit:
chem.markes.com/SPFCutter



Scan the code to
watch the video

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