

ÜHEKOMPONENTSE VAHU ISELOOMUSTAMINE. OSA 1:  
VAHU SAAGISE NÄITAJAD

Characterisation of one component foam - Part 1: Foam  
yield characteristics

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN 17333-1:2020 sisaldab Euroopa standardi EN 17333-1:2020 ingliskeelset teksti.	This Estonian standard EVS-EN 17333-1:2020 consists of the English text of the European standard EN 17333-1:2020.
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Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 18.03.2020.	Date of Availability of the European standard is 18.03.2020.
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English Version

## Characterisation of one component foam - Part 1: Foam yield characteristics

Caractérisation des mousses monocomposants - Partie  
1 : Caractéristiques de rendement des mousses

Charakterisierung von Einkomponentenschäumen -  
Teil 1: Schaumausbeute

This European Standard was approved by CEN on 1 December 2019.

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This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

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EUROPEAN COMMITTEE FOR STANDARDIZATION  
COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

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## European foreword

This document (EN 17333-1:2020) has been prepared by Technical Committee CEN/TC 193 “Adhesives”, the secretariat of which is held by UNE.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by September 2020, and conflicting national standards shall be withdrawn at the latest by September 2020.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document is one of the product European Standards within the framework series of EN 17333 on Characterization of one component foam, as follows:

- *Part 1: Foam yield characteristics* (this document);
- *Part 2: Expansion characteristics*;
- *Part 3: Application*;
- *Part 4: Mechanical strength*;
- *Part 5: Insulation*.

This document is one of a series of standards which specify test methods for determining the properties of one component foams (OCFs).

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## 1 Scope

This document specifies test methods for the evaluation of the foam yield characteristics for moisture curing, self-curing activatable or water drying foams dispensed from single pressurized foam containers.

This document does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this document to establish appropriate safety and health practices and determine the applicability of regulatory requirements prior to use.

The following test methods are described:

- Method 1 – Determination of the apparent density of an OCF extruded in a joint and calculation of the theoretical foam yield in running meters of the whole can.
- Method 2 – Determination of the real yield of cured foam, respecting eventual cavities inside the foam structure.
- Method 3 – Determination of the free foamed density of a cured OCF for identification purposes only.
- Method 4 – Determination of the total foam yield for the whole OCF container for moisture and self-curing foam that can be measured by water displacement.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 923, *Adhesives - Terms and definitions*

EN 15006, *Metal aerosol containers - Aluminium containers - Dimensions of the 25,4 mm aperture*

EN 14847, *Aerosol containers - Tinplate containers - Dimensions of the 25,4 mm aperture*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 923 and the following apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp/ui>
- IEC Electropedia: available at <http://www.electropedia.org/>

### 3.1

#### **one component foam (OCF)**

moisture curing or water drying foam as well as self-curing activatable foam dispensed from a single pressurised foam container

### 3.2

#### **free foamed density**

density of cured foam after expanding without physical constraints