

**Glass packaging - Screw finishes for pressure capsules -
Part 1: Returnable glass MCA 1 finish**

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

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English Version

**Glass packaging - Screw finishes for pressure capsules - Part 1:
Returnable glass MCA 1 finish**

Emballage en verre - Bagues à vis pour capsules à
pression - Partie 1: Bague MCA 1 pour verre consigné

Verpackungen aus Glas - Schraubmundstücke für Flaschen
mit Innendruck - Teil 1: Mehrweg-MCA 1-(Glas-)Mundstück

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Foreword

This document (EN 16287-1:2014) has been prepared by Technical Committee CEN/TC 261 "Packaging", the secretariat of which is held by AFNOR.

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of an identical text or by endorsement, at the latest by September 2014 and conflicting national standards shall be withdrawn at the latest by September 2014.

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EN 16287, *Glass packaging — Screw finishes for pressure capsules*, consists of the following parts:

- *Part 1: Returnable glass MCA 1 finish*
- *Part 2: One way glass MCA 1 finish*

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Introduction

This European Standard is based on CE.T.I.E. (International Technical Centre for Bottling and related Packaging) data sheet GME 32.05.[1]

Efficient packaging is of great importance for the distribution and the protection of goods. Insufficient or inappropriate packaging can lead to damage or wastage of the contents of the pack.

1 Scope

This European Standard specifies the dimensions of the 28 mm screw finish for glass containers designated MCA 1 for returnable glass.

2 Terms and definitions

For the purposes of this document, the following term and definition applies.

2.1
MCA
(glass) finish designed for the closure of pressurized or vacuum liquids with a tamper-evident closure (metal or plastic)

3 Dimensions

The design and dimensions of the finish shall be as shown in Table 1 and Figure 1, Figure 2, Figure 3, Figure 4 and Figure 5.

Table 1 — Design and dimensions of the finish

Pitch	β	TPI	Ø cutter
3,175 mm	2° 12'	8	12,5 mm
β = Helix angle or angle of fixture to cutter. NOTE TPI = Threads per Inch. One inch is equal to 25,4 mm.			

The Tan β of helix angle for cutter is calculated via the following formula:

$$\tan \beta = \frac{\text{pitch}}{\frac{\pi(\text{nominal } T + \text{nominal } E)}{2}}$$

where

T is the thread diameter;

E is the wall diameter of threaded finish.

The average of the maximum and minimum of « L » diameter is as close as possible to « L » nominal.

The mean diameter $L \frac{\text{diameter max} + \text{diameter min}}{2}$ is in the tolerance of $\pm 0,2$ mm.

Optional: depressed thread at mould parting line (see EN 16292).