
Embalaža - Toge plastične posode - PET-grla 29/25 (12,6)

Packaging - Rigid plastic containers - PET finish 29/25 (12,6)

Verpackung - Formstabile Kunststoffbehälter - PET-Verschlussmundstück 29/25 (12,6)

Emballage - Récipients en plastique rigide - Bague PET 29/25 (12,6)

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55.100

Steklenice. Lonci. Kozarci

Bottles. Pots. Jars

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 16592

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ICS 55.100

Will supersede EN 16592:2014

English Version

**Packaging - Rigid plastic containers - PET finish 29/25
(12,6)**

Emballage - Récipients en plastique rigide - Bague PET
29/25 (12,6)

Verpackung - Formstabile Kunststoffbehälter - PET-
Verschlussmundstück 29/25 (12,6)

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 261.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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

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European foreword

This document (prEN 16592:2021) has been prepared by Technical Committee CEN/TC 261 “Packaging”, the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document will supersede EN 16692:2014.

In comparison with the previous edition, the following technical modifications have been made:

- the explanations about the tamper evident feature have been removed from the scope;
- the possibility of having an attached cap is now mentioned;
- in Figure 1: removal from the tolerance on the neck diameter Ø28.00, the dimension is now indicated Ø(28.00); a straight cylindrical zone of 3,50 mm is indicated under the support ledge; the angle of thread profile is 20° instead of 22°; the radius at the upper root of the support ledge in section B-B is R1 instead of R0,5;
- in detail C, the E dimension is (27,60) instead of (27,80), the concentricity of ØF is specified to ØA instead of to ØC;
- the weight has been recalculated at 2,42 g instead of 2,41 g;
- many editorial modifications have been made to clarify the specification.

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Introduction

Efficient packaging is a significant factor in respect of the distribution and the protection of goods. Insufficient or inappropriate packaging can lead to damage or wastage of the contents of the pack.

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1 Scope

This document specifies the design and dimensions of the 29 mm screw finish with three (3) thread starts for flat waters and non-carbonated beverages.

This document applies to finishes designated as PET finishes 29/25 (12,6). The dimension (12,6) is the height in millimetres from the top of finish to the bottom of the support ledge.

This finish can be used for aseptic filling and filling which utilizes nitrogen pressure. The internal overpressure does not exceed 1 bar maximum).

This finish is designed to accept a tamper evident plastic closure only including those with an attachment feature.

2 Normative references

There are no normative references in this document.

3 Terms and definitions

No terms and definitions are listed in this document.

4 Dimensions

4.1 The design and dimensions of the finish shall be as shown in Figure 1. Dimensions are those of the preform.

4.2 Dimensions of the 3 thread starts 120° apart:

- 180° of full thread per lead:
 - R 6,25 mm thread run-in;
 - R 6,25 mm thread run-out.

Lead: 6,5 mm (travel per turn).

4.3 General tolerance for others radii: $\pm 0,13$ mm.

4.4 Weight on height 12,6 mm: 2,42 g (density = 1,335 g/cm³).

5 Requirements

This finish is a top, side and inside seal finish.

This finish shall be smooth and free of any defects that will contribute to leaks. Flash shall not exceed 0,13 mm per side, and shall not be continuous.

The diameter under the support ledge shown at 28,00 mm (see Figure 1) refers to the preform. The diameter on the blown bottle under the support ledge should be maintained in tight tolerance as this is important for trouble-free capping.

On the blown bottle, the control diameter C shall be free of any defects up to 4 mm down for the internal bore and across the sealing surface of the finish.

Requirements for good closure application on the finish:

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- 0,13 mm maximum out-of-parallel sealing surface with neck support ledge is allowed;
- an offset or vertical mismatch of thread shall not exceed 0,10 mm at the mould seam. Diameter T dimension is not measured in the depressed area.

Variations in diameter E have to follow uniformly those of diameter T.

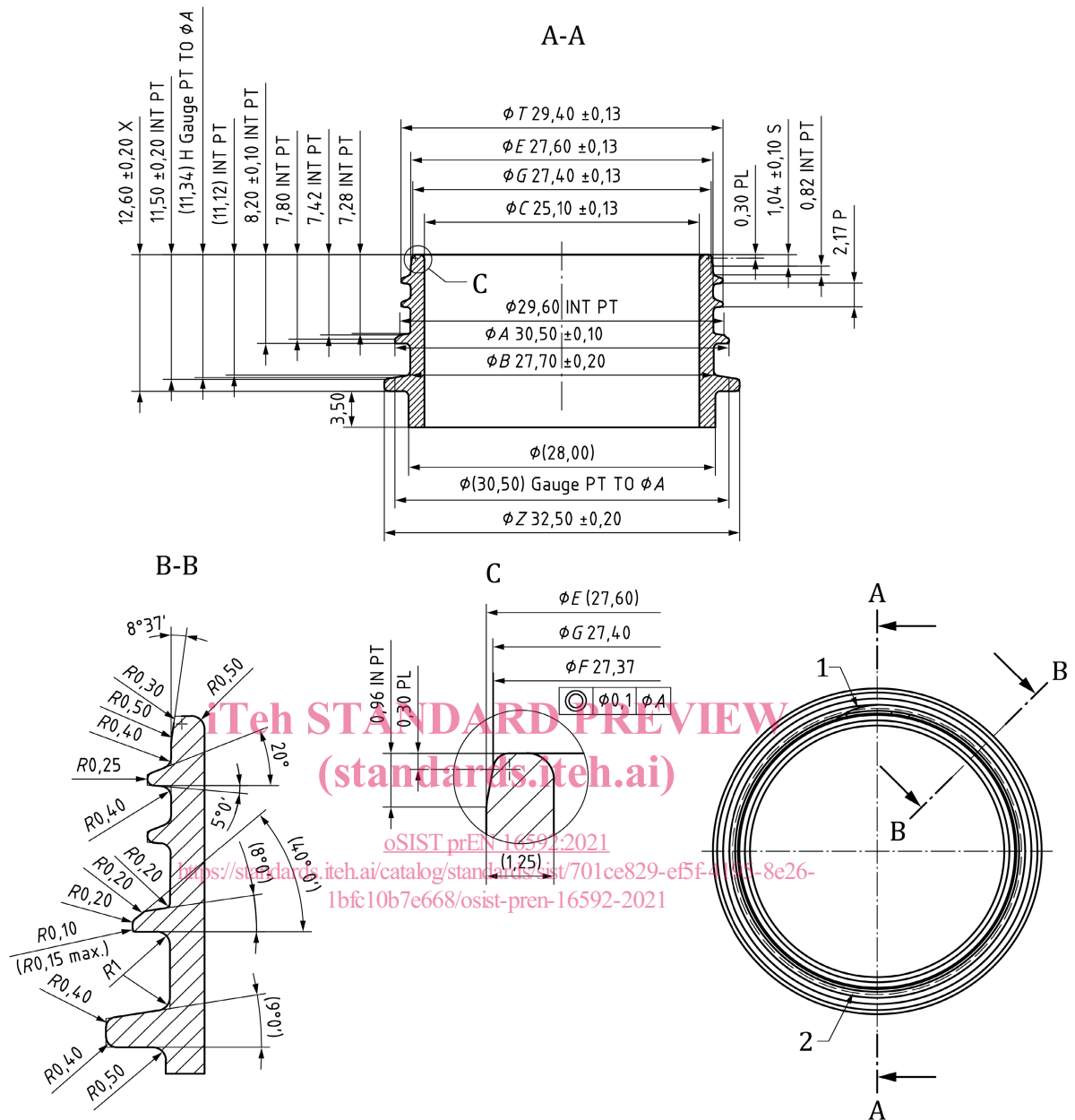
No overhang allowed at any point in 360° between diameter F and diameter G. Flash to 0,15 mm maximum step is allowable on one side only. Diameter G shall not exceed diameter E.

For a successful capping operation the capping equipment shall be correctly adjusted and maintained in good condition.

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Key

A	tamper evident bead diameter	INT PT	intersection point	1	thread run-in
B	tamper evident band recess diameter	P	thread pitch	2	thread run-out
C	control diameter at top of finish	PL	parting line		
E	thread root diameter	S	height from top of finish to start of full depth of thread		
F	upper ring diameter	T	thread crest diameter		
G	lower ring diameter	X	height from top of finish to bottom of support ledge		
H	clearance height required for proper closure function	Z	maximum diameter on support ledge		

Figure 1 — Design and dimensions of the finish

Bibliography

- [1] Cetie data sheet FS 18, *Recommendations for index marks on PET bottle caps and neck finishes*

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