



SLOVENSKI STANDARD SIST EN 12713:2001

01-februar-2001

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Screw cap closure systems for plastics containers with a nominal capacity of 20 l to 60 l

Schraubkappenverschlußsysteme für Kunststoffbehälter mit einem Nennvolumen von 20 l bis 60 l

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Fermetures a bouchon coiffant pour récipients en matières plastiques d'une capacité nominale de 20 l a 60 l

[SIST EN 12713:2001](#)

Ta slovenski standard je istoveten z: **EN 12713:2000**

ICS:

55.140 Ù[åãS[çã • \ã [åãÜ[\^ Barrels. Drums. Canisters

SIST EN 12713:2001

en

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EUROPEAN STANDARD

EN 12713

NORME EUROPÉENNE

EUROPÄISCHE NORM

January 2000

ICS 55.140

English version

Screw cap closure systems for plastics containers with a nominal capacity of 20 l to 60 l

Fermetures à bouchon coiffant pour récipients en matières plastiques d'une capacité nominale de 20 l à 60 l

Schraubkappenverschlußsysteme für Kunststoffbehälter mit einem Nennvolumen von 20 l bis 60 l

This European Standard was approved by CEN on 26 November 1999.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

CONTENTS

	Page
Foreword.....	3
1. Scope	4
2. Terms and definitions	4
3 Requirements	5
4. Designation.....	6
FIGURE 1 — Screw cap closure system assembly	7
FIGURE 2 — Screw cap closure system CCS 46 × 4	11
FIGURE 3 — Screw cap closure system CCS 60 × 6	12
FIGURE 4 — Screw cap closure system CCS 70 × 6	13

SIST EN 12713:2001

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CIVILISATIONS NATIONALES

Foreword

This European Standard 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 July 2000, and conflicting national standards shall be withdrawn at the latest by July 2000.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

This standard is one of a series of standards on plastics drums of 20 l to 225 l and closures.

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 package.

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1. Scope

This European Standard specifies the characteristics and dimensions of screw cap closure systems, for externally threaded plastics containers with a nominal capacity of 20 l to 60 l.

2. Terms and definitions

For the purposes of this standard, the following terms and definitions apply.

2.1

screw cap closure system (CCS)

system of one or more components which enables an externally threaded container to be filled or emptied and then secured to provide a leakproof seal for subsequent transport or storage

NOTE Different examples are shown in Figure 1.

2.2

screw cap

device, provided with an internal thread, which closes an opening in a container

2.3

neck

that part of the container designed to receive the screw cap

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2.4

gasket (washer) or screw cap insert

component which, under compression, facilitates a leakproof seal between the cap and the neck housing

2.5

gasket sealing faces

those areas of the screw cap or neck designed to contact the gasket and make the seal

2.6

overcap/tamper evident rings

cap or fitting attached to the cap which incorporates a facility for providing evidence of tampering

3 Requirements

3.1 Dimensions

The dimensions and tolerances of the closure systems shall be as shown in Figures 2, 3 and 4.

Measurements shall be conducted at ambient conditions but shall not be made within 48 h of manufacture.

For necks, diameter measurements shall be the mean of at least two readings orientated at 90° to each other.

3.2 Gaskets or inserts

Where used, gaskets or inserts shall be positioned correctly prior to the screw cap being fitted to the container.

3.3 Closure torque

The filled container shall be closed, using the appropriate tooling, to the manufacturer's recommended closure torque. The screw cap and neck shall be dry before closing the container.

NOTE The manufacturer should provide information on the recommended closure torque for each type of gasket or insert supplied.

3.4 Material identification symbol [SIST EN 12713:2001](#)

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All the plastics components, excluding gaskets, of the closure systems shall be permanently marked with the relevant material identification symbol, i.e. the symbol identifying the material from which the component is made.

3.5 Materials

The screw cap and gasket or insert, where used, shall be manufactured from materials appropriate to the physical and chemical requirements of their intended use.

3.6 Thread

All threads shall be buttress-type as shown in Figures 2, 3 and 4.

3.7 Screw caps

Screw caps shall be designed so that they can be closed or removed by means of a simple tool.

Page 6
EN 12713:2000

3.8 Finish

The nature of the internal and external finish of the screw cap and gasket or insert, where used, shall be appropriate to the physical and chemical requirements of their intended use.

NOTE The nature of the internal and external finish should be agreed between the purchaser and the supplier.

4. Designation

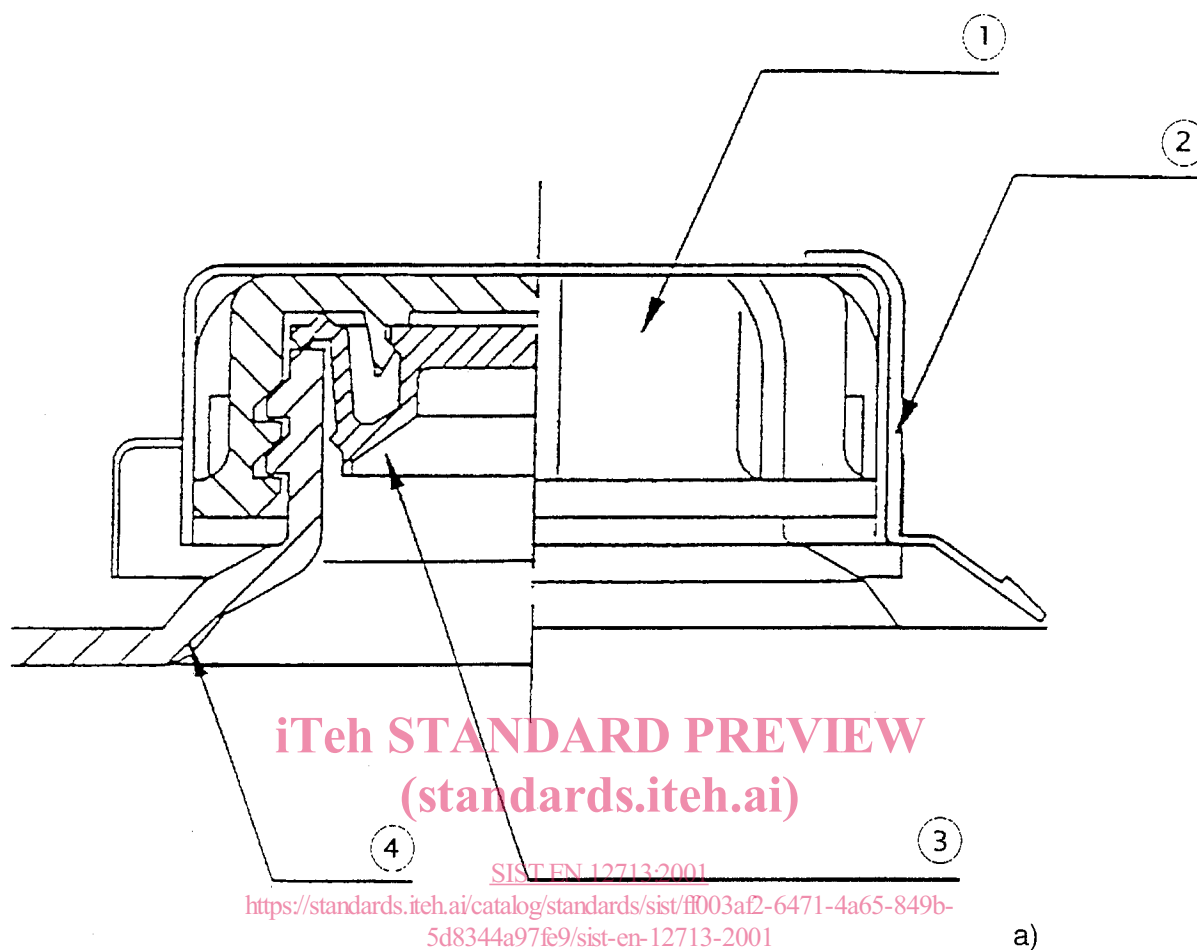
Screw cap closure systems (CCS) manufactured in accordance with this Standard shall be designated:

Screw cap EN 12713 CCS 70 x 6
Screw cap EN 12713 CCS 60 x 6
Screw cap EN 12713 CCS 46 x 4

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Key

- 1 screw cap
- 2 overcap
- 3 screw cap insert
- 4 neck

FIGURE 1 — Screw cap closure system assembly