

Institut luxembourgeois de la normalisation de l'accréditation, de la sécurité et qualité des produits et services

ILNAS-EN 12983-1:2000

Cookware - Domestic cookware for use on top of a stove, cooker or hob - Part 1: General requirements

Kochutensilien - Haushaltskochgeschirre zur Verwendung auf einem Ofen, Herd oder Kochmulde - Teil 1: Allgemeine Anforderungen

Articles culinaires - Articles culinaires à usage domestique pour cuisinières et plaques de cuisson - Partie 1:

Prescriptions générales

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National Foreword

This European Standard EN 12983-1:2000 was adopted as Luxembourgish Standard ILNAS-EN 12983-1:2000.

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This European Standard was approved by CEN on 27 February 2000.

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.



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

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

Contents

		F	PAGE
FOREWORD3			
1		SCOPE	4
2		NORMATIVE REFERENCES	4
3		TERMS AND DEFINITIONS	4
4		MATERIALS	5
5		GENERAL CONDITIONS FOR TESTING	5
6		CONSTRUCTION	6
	6.′	1 GENERAL	6
	6.2	2 GEOMETRY	7
7		FURNITURE	8
	7.′	1 GENERAL	8
	7.2	2 RESISTANCE TO BURNING	8
	7.3	3 HEAT RESISTANCE	8
	7.4	4 TORQUE RESISTANCE	9
	7.5	5 Bending strength.	9
	7.6	6 FATIGUE RESISTANCE	9
	7.7	7 THERMAL HAZARDS	9
8		COATINGS ON THE BODY AND THE LID	9
	8.′	1 VITREOUS ENAMEL ON STEEL AND CAST IRON	9
	8.2	2 ADHESION TEST FOR VITREOUS ENAMEL ON ALUMINIUM	10
	8.3	3 HARD ANODIZED ALUMINIUM.	10
	8.4	4 ORGANIC EXTERNAL COATINGS	10
9		PERFORMANCE	11
	9.′	1 Pouring	11
	9.2		
1	0	PRODUCT INFORMATION	11
	10		
	10	0.2 CARE AND USE INSTRUCTIONS	11
		NEX A (NORMATIVE) TEST FOR RESISTANCE TO BURNING	
		NEX B (NORMATIVE) TEST FOR HEAT RESISTANCE OF FURNITURE	
		NEX C (NORMATIVE) TEST FOR RESISTANCE TO TORQUE	
		NEX D (NORMATIVE) BENDING STRENGTH TEST	
		NEX E (NORMATIVE) HANDLE FATIGUE TEST	
		NEX F (NORMATIVE) TEST FOR THE INSULATING PROPERTIES OF FURNITURE	
		NEX G (NORMATIVE) ADHESION TEST FOR VITREOUS ENAMEL ON ALUMINIUM	
		NEX H (NORMATIVE) RESISTANCE TO STAINING OF ANODISED COATINGS	
		NEX J (NORMATIVE) RESISTANCE TO ALKALI OF ANODISED ALUMINIUM	
		NEX K (NORMATIVE) PENCIL HARDNESS TEST FOR EXTERIOR ORGANIC COATINGS	
		NEX L (NORMATIVE) POURING TEST	
۸	NIN	NEY M (NORMATIVE) RASE STABILITY LINDER SHOCK CONDITIONS	28

Foreword

This European Standard has been prepared by Technical Committee CEN/TC 194 "Utensils in contact with food", the secretariat of which is held by BSI.

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 October 2000, and conflicting national standards shall be withdrawn at the latest by October 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.

1 Scope

This European Standard specifies safety and performance requirements for items of cookware for domestic use on top of a stove, cooker or hob. It is applicable to all cookware regardless of material or method of manufacture with the exceptions of those mentioned below. It is also applicable to cookware intended for use both "on top" and "in oven".

It is not applicable to glass, ceramic and glass ceramic articles.

NOTE 1 The applicability of this standard and possible additional requirements and test procedures for these products are under consideration and are intended to be incorporated in a complementary standard.

This standard is not applicable to pressure cookers, stove top water kettles and coffee makers.

NOTE 2 Requirements and test procedures for resistance to pull of furniture, non stick coatings, suitability for various heat sources and suitability for use in automatic dishwasher are under study and will be covered by a complementary standard.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN 30-1-1 Domestic cooking appliances burning gas - Part 1-1: Safety - General.

EN ISO 2064, Metallic and other inorganic coatings - Definitions and conventions concerning the measurement of thickness.

EN ISO 2360, Non-conductive coatings on non-magnetic basis metals - Measurement of coating thickness - Eddy current method.

EN ISO 2409:1994, Paints and varnishes - Cross-cut test. (ISO 2409: 1992)

ISO 2742, Vitreous and porcelain enamels - Determination of resistance to boiling citric acid.

ISO 2744, Vitreous and porcelain enamels - Determination of resistance to boiling water and water vapour.

ISO 2747, Vitreous and porcelain enamels - Enamelled cooking utensils - Determination of resistance to thermal shock.

ISO 4532, Vitreous and porcelain enamels - Determination of the resistance of enamelled articles to impact - Pistol test.

EN ISO 10093, Plastics - Fire tests - Standard ignition sources.

3 Terms and definitions

For the purposes of this European Standard, the following terms and definitions apply:

3.1

cookware

utensil, in the form of a hollow container, intended for use in the cooking of food or beverages on the top of a stove, cooker or hob, and/or in a oven.

3.2

fixing system

attachment method, or methods, utilized in fastening a handle to the body of an item of cookware or to fix a knob to a lid.

3.3

capacity

volume of water held when the cookware is filled to the brim while standing on a level surface.

3.4

usable capacity

two thirds of the capacity.

NOTE The true usable capacity of the cookware varies with the food being cooked. The figure given here is an average value intended for use in test situations only and not as information to the consumer.

3.5

handle

projection integral with or affixed to the body of the cookware and intended to facilitate the carrying and holding of the article in normal use.

3.6

removable handle

handle designed to be attached and removed from the body of the cookware without the use of tools.

3.7

knob

short projection integral with or affixed to the lid of the cookware to facilitate positioning or removal in normal use.

3.8

shallow items

cookware of overall internal depth 1/3 or less of the interior diameter at the rim.

3.9

furniture

generic term for handles and knobs.

3.10

non -stick coating

coating applied to the interior of a cookware to achieve an anti-adherent effect during cooking and facilitate cleaning.

3.11

base diameter

dimension, measured on the exterior bottom of the cookware, across the maximum circumference of contact when placed on a flat surface.

4 Materials

Cookware shall be made of materials of a type and purity that, under normal conditions of use, present no toxic hazards nor in any way affect the organoleptic qualities of food prepared in it.

5 General conditions for testing

Unless otherwise specified, the tests shall be carried out at an ambient temperature of (23 ± 5) °C.

When a failure in a test could be caused by the stresses set up by a previous test, the failed test shall be repeated on a new product.

6 Construction

6.1 General

6.1.1 Stability

The product shall be stable when placed empty without lid on a 5 ° inclined surface in the least favourable position, except for products whose intrinsic design features preclude them complying with this requirement e.g certain woks.

6.1.2 Selection of handles

All cookware, excluding shallow items, with a capacity greater than 3,75 l or a total weight of 5 kg when filled to capacity with water shall be fitted with two handles.

6.1.3 Hygiene

All surfaces intended to come into contact with food shall be easily cleanable under normal circumstances.

6.1.4 Mechanical hazards

All components shall be free from burrs, splinters or sharp edges that could cause injury or discomfort to the user.

6.1.5 Handle position with respect to cookware.

Handles shall be positioned above the centre of gravity of an item of cookware when filled with water to its capacity. For shallow items there shall be a minimum clearance of 30 mm between the handle and the horizontal projection of the base of the item of cookware at a point halfway along the handle assembly. In the case of side handles, the measurement is taken at the lowest point where they are held in normal use (see figure 1).

Dimensions in millimetres

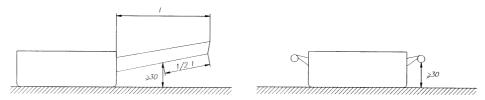


Figure 1 — Handle position

6.1.6 Knob design.

It shall be possible to use the knob for its normal purposes without coming into contact with any surface whose temperature exceeds the values given in 7.7 for the relevant materials.

6.1.7 Lid design

The design of the lid shall be such that it shall be possible to remove it from the body using a force equal to the weight of the lid \pm 2 N in any position at a temperature of (23 \pm 5) °C. This test shall be carried out both before and after bringing a quantity of water, equal to the usable capacity, to the boil and allowing it to cool to ambient temperature. The lid shall remain in place throughout the boiling and cooling stages. If the lid is fitted with a locking device, this test shall be carried out with the device disengaged.