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DfYlc b]d`]bg\_] [ fYb\_] n`Uha cgZfg\_]a [ cf]b]\_ca `nUdf]dfUj c`gUb]hUfbY`cd`Y  
j cXY!`8cdc`b]c`5`

Gas-fired instantaneous water heaters for the production of domestic hot water, fitted with atmospheric burners - Amendment A3

Gasbeheizte Durchlauf-Wasserheizer für den sanitären Gebrauch

Appareils de production instantanée d'eau chaude pour usages sanitaires équipés de brûleurs atmosphériques utilisant les combustibles gazeux

Ta slovenski standard je istoveten z:

SIST EN 26:2004/A3:2007

EN 26:1997/A3:2006

<https://standards.iso.org/standards/sist/26:2004-2007-4ac3-8333-a24a2ca83eb8/sist-en-26-2004-a3-2007>

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**ICS:**

91.140.65

**SIST EN 26:2004/A3:2007**

**en,fr,de**

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SIST EN 26:2004/A3:2007

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English Version

## Gas-fired instantaneous water heaters for the production of domestic hot water, fitted with atmospheric burners

Appareils de production instantanée d'eau chaude pour usages sanitaires équipés de brûleurs atmosphériques utilisant les combustibles gazeux

Gasbeheizte Durchlauf-Wasserheizer für den sanitären Gebrauch mit atmosphärischen Brennern

This amendment A3 modifies the European Standard EN 26:1997; it was approved by CEN on 4 September 2006.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant 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 amendment 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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

[SIST EN 26:2004/A3:2007](https://standards.iteh.ai/catalog/standards/sist/ab370bb4-2aa4-4ae3-8333-a24a2ca83eb8/sist-en-26-2004-a3-2007)

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

Management Centre: rue de Stassart, 36 B-1050 Brussels

## Foreword

This document (EN 26:1997/A3:2006) has been prepared by Technical Committee CEN/TC 48 “Domestic gas-fired water heaters”, the secretariat of which is held by AFNOR.

This Amendment to the European Standard EN 26:1997 shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2007, and conflicting national standards shall be withdrawn at the latest by April 2007.

This amendment includes requirements relative to the metallic, plastic and other non-metallic materials that are used in water heaters and which come into contact with water intended for human consumption. It is intended to ensure that products of this kind complying with these requirements meet current technological development and requirements which will result from the application of the EAS (European Approval Scheme) of the European Commission, with regard to the service life of water heaters and their physiological suitability.

NOTE As long as no European regulations are enforced (EAS) national regulations stay in force.

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

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## 6.1.2 Materials

Add a new subclause header “6.1.2.1 General”.

Replace the last paragraph with the following text:

### 6.1.2.2 Metallic materials

#### 6.1.2.2.1 Corrosion resistance

Provided that the water heater is used in accordance with the manufacturer's instructions:

- the functioning of components manufactured from corrosion-resistant metallic materials shall not be affected by corrosion within the expected service life of the water heater, and
- no special maintenance shall be required to keep the components in good working order.

#### 6.1.2.2.2 Requirements

Materials that come into contact with water intended for human consumption shall withstand the mechanical, chemical and thermal stresses to which they are exposed during the service life of the water heater and shall not contaminate the water supplied.

Metallic materials shall be corrosion-resistant. Metallic materials are considered to satisfy the requirements with respect to corrosion protection:

- if the material used is enamelled (one or more layers) and equipped with cathodic corrosion protection, or
- where types of stainless steel containing a minimum of 16 % chrome are used, or
- where they are assessed as acceptable to the national regulations in force.

Examples for the selection of metallic materials (steel, copper and copper alloys) are given in P.2 and P.3.

### 6.1.2.3 Non-metallic materials

#### 6.1.2.3.1 Plastic materials

Due to the many different types of plastic in components used in the drinking water sector, many different material properties need to be taken into consideration e.g. longitudinal expansion, joining and fixing techniques, temperature effects, effect of light (UV resistance), ageing, internal pressure, internal and external corrosion (for example as a result of using cleaning products) and also transport and storage conditions.

#### 6.1.2.3.2 Requirements of plastic materials

In the manufacture of water heaters and their components, only those plastic materials that meet mechanical, chemical and thermal demands as well as physiological and hygiene requirements throughout the life of the equipment shall be used in contact with water intended for human consumption. This means they shall be suitable for coming into direct contact with food and not pose any health threat. Special attention shall be paid to the microbiological properties of the plastic materials used and to the prevention of substances leaching out.

Examples for the selection of the plastic materials are given in P.4.

**6.1.2.3.3 Other non-metallic operating and auxiliary materials**

These materials include rubber, sealant, adhesives and also lubricants on moving parts that come into contact with the water intended for human consumption. These materials shall satisfy the physiological and hygiene requirements in force. Their use is to be limited to what is technically necessary.”

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Add the following Annex P:

## ANNEX P (informative)

### Examples of materials currently used

#### P.1 General

Materials in compliance with the requirements of the enforced national regulations (e.g. ACS, ATA, KTW, WRC, ...) are deemed to satisfy the requirements of the present amendment.

#### P.2 Special types of steel

Table P.1 — Special types of steel

Material reference	Abbreviation
1.4571	X6CrNiMoTi 17 12 2
1.4435	X2CrNiMo 18 14 3
1.4539	X2NiCrMoCu 25 20 5
1.4462	X2CrNiMoN 22 5

#### P.3 Copper and copper alloys

Table P.2 — Copper and copper alloys

Material	Material reference	Abbreviation
Copper	2.0090	SF-Cu
Copper-Nickel alloy	2.0872	CuNi10Fe1Mn
Copper-Zinc alloys	2.0401 2.0402 2.0340.02 2.0340.05 2.0290.01	CuZn39Pb3 CuZn40Pb2 GK-CuZn37Pb GD-CuZn37Pb G-CuZn33Pb
Copper-Tin-Zinc alloys	2.1096.01	G-CuSn5ZnPb
Copper-Tin alloys	2.1020	CuSn6

## P.4 Plastic materials

**Table P.3 — Plastic materials**

Material	Abbreviation	Area of application
Unplasticized polyvinylchloride High and medium-density polyethylene	PVC-U PE-HD, PE-MD	Cold water systems
Cross-linked polyethylene Polybutylene Propylene copolymer (Polypropylene) Chlorinated polyvinylchloride	PE-X PB PP-H, PP-R PVC-C	Cold and hot water systems
Composite pipes (plastic-metal-plastic)	Various	

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