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STANDARD

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PLASTICS PIPING SYSTEMS FOR HOT AND COLD WATER INSTALLATIONS - CHLORINATED POLY(VINYL CHLORIDE) (PVC-C) - PART 1: GENERAL (ISO 15877-1:2003)

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Contents

Contents **2**

Introduction **4**

1 Scope **5**

2 Normative references **5**

3 Terms and definitions, symbols and abbreviated terms **5**

3.1 Terms and definitions 5

3.2 Symbols 8

3.3 Abbreviated terms 9

4 Classification of service conditions **9**

5 Material **10**

5.1 General 10

5.2 Density 10

5.3 Chlorine content 10

5.4 Hydrostatic stress properties 10

5.5 Verification of the malfunction temperature 11

5.6 Influence on water intended for human consumption 11

5.7 Reprocessable and recycable material 11

Annex A (normative) **12**

A.1 Scope 12

A.2 Principle 12

A.3 Apparatus 12

A.4 Test pieces 12

A.5 Procedure 13

A.6 Test report 13

Bibliography **14**

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Foreword

This document (EN ISO 15877-1:2003) has been prepared by Technical Committee CEN/TC 155 “Plastics piping systems and ducting systems”, the secretariat of which is held by NEN, in collaboration with Technical Committee ISO/TC 138 "Plastics pipes, fittings and valves for the transport of fluids".

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of an identical text or by endorsement, at the latest by June 2004, and conflicting national standards shall be withdrawn at the latest by December 2005.

NOTE This standard was submitted for CEN enquiry as prEN 12731-1:1995

This standard is a Part of a System Standard for plastics piping systems of a particular material for a specified application. There are a number of such System Standards.

System Standards are based on the results of the work undertaken in ISO/TC 138 "Plastics pipes, fittings and valves for the transport of fluids", which is a Technical Committee of the International Organization for Standardization (ISO).

They are supported by separate standards on test methods to which references are made throughout the System Standard.

The System Standards are consistent with general standards on functional requirements and recommended practices for installation.

EN ISO 15877:2003 consists of the following Parts [1)], under the general title *Plastics piping systems for hot and cold water installations — Chlorinated poly(vinyl chloride) (PVC-C)*

— *Part 1: General* (the present standard)

— *Part 2: Pipes*

— *Part 3: Fittings*

— *Part 5: Fitness for purpose of the system*

— *Part 7: Guidance for the assessment of conformity* (CEN ISO/TS 15877-7).

This Part 1 of EN ISO 15877includes the following:

— Annex A (normative): Test method for the verification of the malfunction temperature, T_{mal}, of PVC-C material;

— Bibliography.

At the date of publication of this standard, System Standards for piping systems of other plastics materials used for hot and cold water installations are the following:

EN ISO 15874, *Plastics piping systems for hot and cold water installations — Polypropylene (PP) (ISO 15874:2003)*

EN ISO 15875, *Plastics piping systems for hot and cold water installations — Crosslinked polyethylene (PE-X) (ISO 15875:2003)*

EN ISO 15876, *Plastics piping systems for hot and cold water installations — Polybutylene (PB) (ISO 15876:2003)*

For pipes and fittings which have conformed to the relevant national standard before 1st November, 2003, as shown by the manufacturer or by a certification body, the national standard may continue to apply until 30th November 2005.

1) This System Standard does not incorporate a Part 4: *Ancillary equipment* or a Part 6: *Guidance for installation.* For ancillary equipment separate standards can apply. Guidance on installation of plastics piping systems made from different materials intended to be used for hot and cold water installations is given by ENV 12108 [1].

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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, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

Introduction

The System Standard, of which this is Part 1, specifies the requirements for a piping system when made from chlorinated poly(vinyl chloride) (PVC-C). The piping system is intended to be used for hot and cold water installations.

In respect of potential adverse effects on the quality of water intended for human consumption, caused by the product covered by EN ISO 15877:

— This standard provides no information as to whether the product may be used without restriction in any of the Member States of the EU or EFTA;

— It should be noted that, while awaiting the adoption of verifiable European criteria, existing national regulations concerning the use and/or the characteristics of this product remain in force.

When using solvent cement, relevant national safety rules or regulations concerning their use (e.g. protection of workers) are to be observed.

Requirements and test methods for components of the piping system are specified in Part 2 and Part 3 of EN ISO 15877:2003. Characteristics for fitness for purpose (mainly for joints) are covered in Part 5. Part 7 (CEN ISO/TS 15877-7) gives guidance for the assessment of conformity.

This Part of EN ISO 15877 specifies the general aspects of the plastics piping system.

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