

Geregistreeerde Belgische norm

NBN EN 637

1e uitg., september 1994

Normklasse: T 41

Kunststof buissystemen - Delen van glasversterkte kunststoffen - Bepaling van de gehalten aan bestanddelen met behulp van de gravimetrische methode (+ AC:1994)

Systèmes de canalisations en plastique - Composants plastiques renforcés de verre - Détermination des teneurs des constituants par la méthode gravimétrique (+ AC:1994)

Plastics piping systems - Glass-reinforced plastics components - Determination of the amounts of constituents using the gravimetric method (+ AC:1994)

Toelating tot publicatie: 26 augustus 1994

Deze Europese norm EN 637 : 1994 heeft de status van een Belgische norm.

Deze Europese norm bestaat in drie officiële versies (Duits, Engels, Frans); de Nederlandse vertaling werd in 1999 gemaakt door het Belgisch Instituut voor Normalisatie (BIN) en heeft dezelfde waarde.

***norme belge
enregistrée***

NBN EN 637

1e éd., septembre 1994

Indice de classement: T 41

Systèmes de canalisations en plastique - Composants plastiques renforcés de verre - Détermination des teneurs des constituants par la méthode gravimétrique (+ AC:1994)

Kunststof buissystemen - Delen van glasversterkte kunststoffen - Bepaling van de gehalten aan bestanddelen met behulp van de gravimetrische methode (+ AC:1994)

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La présente norme européenne EN 637:1994 a le statut d'une norme belge.

La présente norme européenne existe en trois versions officielles (allemand, anglais, français); la traduction néerlandaise a été faite en 1999 par l'Institut Belge de Normalisation (IBN) et a le même statut.

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Descriptors: Pipelines, piping, plastic tubes, thermosetting resins, reinforced plastics, glass, components, determination of content, gravimetric analysis

English version

**Plastics piping systems - Glass-reinforced plastics
components - Determination of the amounts of
constituents using the gravimetric method**

Systèmes de canalisations en plastique -
Composants plastiques renforcés de verre -
Détermination des teneurs des constituants par
la méthode gravimétrique

Kunststoff-Rohrleitungssysteme - Teile aus
glasfaserverstärkten Kunststoffen - Ermittlung
der Gehalte von Bestandteilen mit Hilfe des
gravimetrischen Verfahrens

This European Standard was approved by CEN on 1994-04-27. 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.

The European Standards exist 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, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

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

Foreword

This standard was prepared by CEN/TC 155 "Plastics piping systems and ducting systems".

This standard is a modification of the Draft International Standard ISO/DIS 7510 "Pipes and fittings of glass-fibre reinforced thermosetting plastics (GRP) - Analysis of constituents - Gravimetric method", prepared by the International Organization for Standardization (ISO).

The modifications are of editorial nature.

The material-dependent parameters and requirements are incorporated in the referring standard(s).

No existing European Standard is superseded by this standard.

This standard is one of a series of standards on test methods which support System Standards for plastics piping systems and ducting systems.

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 1994, and conflicting national standards shall be withdrawn at the latest by October 1994.

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

1 Scope

This standard specifies a method for the determination of constituent materials of a test sample cut from a glass-reinforced plastics (GRP) component intended for use in a piping system. It includes determination of resin, glass, aggregate and filler contents, and determination of the type and arrangement of the constituent glass layers.

Two burning temperatures are given, related to the stability of the glass reinforcement at elevated temperatures.

Application to other composite components should be considered in the referring standard.

2 Principle

A test piece of known size and mass is heated to burn off the resin, and the residue analysed by separating and weighing the constituents.

NOTE 1: In the case of filled laminates, especially those containing fillers of small particle size (including thixotropic agents), accurate analysis of the constituents may prove difficult. This is because of the difficulty in separating such fillers from the other constituents and the risk of some filler being lost during combustion.

NOTE 2: It is assumed that the following test parameters are set by the standard making reference to this standard:

- a) whether or not the types of glass reinforcement are to be separated [see item c) of 5.6 and item h) of clause 7];*
- b) details of the grammage and/or presence of synthetic fibre veil, if known (see 5.8 and 6.6);*
- c) whether or not the glass content of each layer is to be determined (see 6.2);*
- d) whether or not the filler content is to be determined (see 6.5).*