



SLOVENSKI STANDARD SIST EN 12971-1:2000

01-maj-2000

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CnbU Yj UbY

Reinforcements - Specification for textile glass chopped strands - Part 1: Designation

Verstärkungen - Spezifikation für geschnittene Textilglasgarne - Teil 1: Bezeichnung

Renforts - Spécification de fils de verre coupés - Partie 1: Désignation

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Ta slovenski standard je istoveten z: **EN 12971-1:1999**

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ICS:

59.100.10 Materiali iz steklenih vlaken Textile glass materials

SIST EN 12971-1:2000

en

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 12971-1

May 1999

ICS 59.100.10

English version

Reinforcements - Specification for textile glass chopped strands - Part 1: Designation

Renforts - Spécification de fils de verre coupés - Partie 1:
Désignation

Verstärkungen - Spezifikation für geschnittene
Textilglasgame - Teil 1: Bezeichnung

This European Standard was approved by CEN on 16 April 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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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

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АДМИНИСТРАЦИЯ НАЦИОНАЛНОГО
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Foreword

This European Standard has been prepared by Technical Committee CEN/TC 249 "Plastics", the secretariat of which is held by IBN.

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 November 1999, and conflicting national standards shall be withdrawn at the latest by November 1999.

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 part of EN 12971 which is structured as follows :

- Textile glass - Chopped strands - Part 1 : Designation
- Textile glass - Chopped strands - Part 2 : Test methods and general requirements
- Textile glass - Chopped strands - Part 3 : Technical specification

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1 Scope

1.1 This part 1 of EN 12971 establishes a method of designation for chopped strands made from continuous filament textile glass strands, which may be used as the basis for specifications.

1.2 This designation system is for chopped strands used for the reinforcement of plastics and the manufacture of synthetic bonded non-woven materials.

It does not apply to chopped strands made from staple fibres.

1.3 It is not intended to imply that chopped strands having the same designation give necessarily the same performance. Nor is the designation system intended to cover all the characteristics of chopped strands. This part 1 of EN 12971 does not give engineering data, performance data or data which may be required to specify chopped strands for a particular application or method of processing.

If such additional properties are required they should be determined in accordance with the test methods specified in EN 12971, part 2.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative 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 only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN ISO 2078, *Textile glass – Yarns – Designation.* (ISO 2078:1993)

ISO 472, *Plastics – Vocabulary.*

ISO 1888, *Textile glass – Staple fibres or filaments – Determination of average diameter.*

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3 Definitions

For the purposes of this part 1 of EN 12971 the definitions given in ISO 472 apply. Additional terms are defined in part 2 of this standard.

4 Designation System

The designation system for textile glass chopped strands is based on the following standardised pattern (see note).

	Designation		
	Identity Block		
	Individual Item Block		
Standard Number Block	Data Block 1	Data Block 2	Data Block 3

It consists of an Identity Block comprising the European standard number and an individual Item Block. For unambiguous coding the individual Item Block is subdivided into data blocks comprising the following information :

- Data Block 1 Identification of the glass type by its symbol according to EN ISO 2078 ;
- Data Block 2 Designatory properties ;
- Data Block 3 Manufacturers code and/or size coating reference plus reference to whether the chopped strands are packed wet or dry.

To ensure legibility :

- the description block is separated from the standard number by a comma ;
- spaces are inserted between blocks ;
- the first character in the first individual item block is a dash ;
- Data blocks are separated from each other by a comma ;
- a space is introduced between the positions in the blocks ;
- if a data block is not used, this is indicated by two commas (,,)-2000

NOTE This standardised pattern is a modification of the frame text given in ISO 1043-2, adapted to the designation of these reinforcement products.

4.1 Data Block 1

In this data block the glass type identified by its symbol, according to EN ISO 2078 followed by a space and continuous fibre textile glass is identified by the letter C, in accordance with EN ISO 2078.

4.2 Data Block 2

In this data block the designatory properties are defined as follows :

- position 1, the nominal fibre diameter, in accordance with ISO 1888 ;
- position 2, the nominal strand length, as defined by the manufacturer expressed at the nearest 0,5 mm.

4.3 Data Block 3

In this data block the manufacturers code and/or size coating reference is given. The reference is restricted to 5 digits, followed by a space and the letter D or W to designate wet or dry fibre.

5 Coding Examples

5.1 An E Glass, 10 micron fibre, 6 mm chopped strand for thermoplastic injection moulding compound.

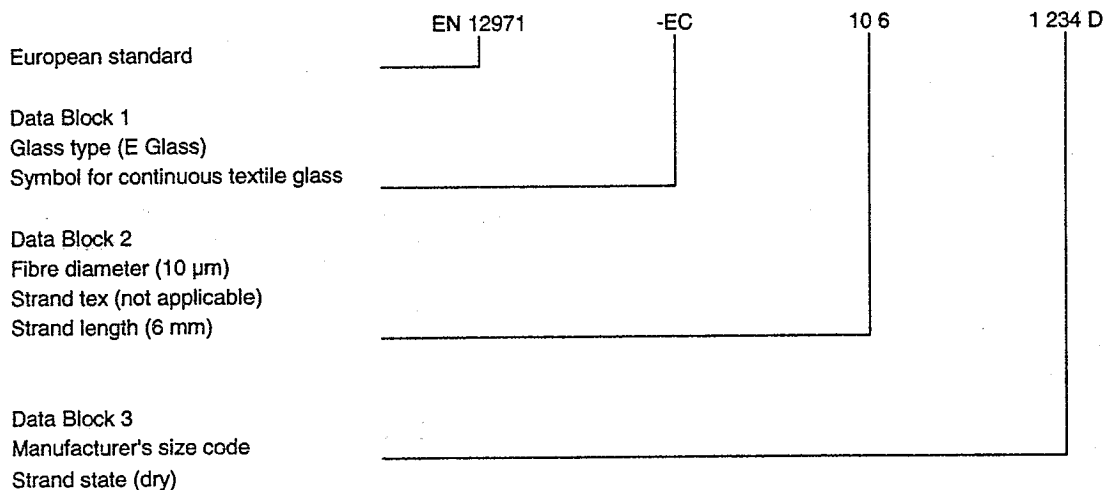


Figure 1 - Designation : EN 12971, -EC, 10 6, 1 234 D

5.2 An E Glass, 13 micron fibre, 12 mm, chopped strand for thermoset compression moulding compound.

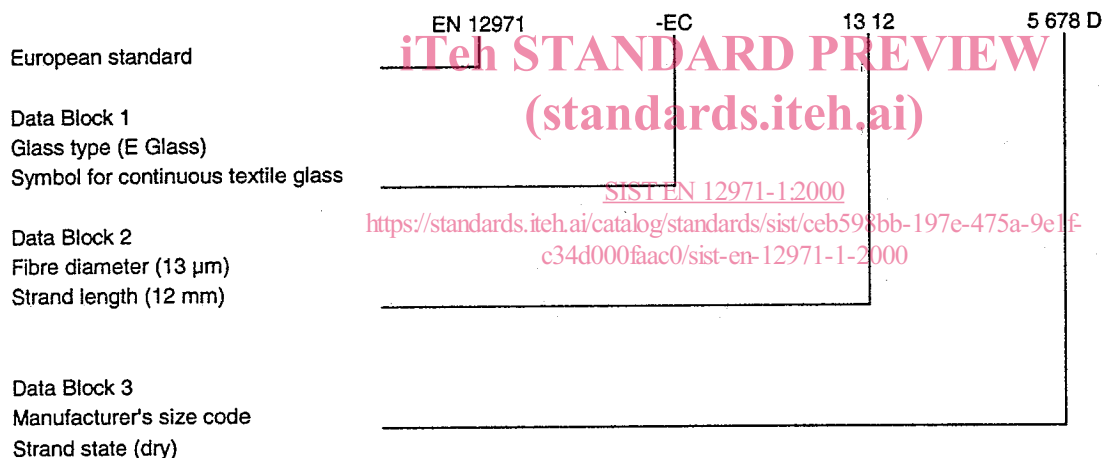


Figure 2 - Designation : EN 12971, -E C, 13 12, 5 678D

Annex A (informative)

Bibliography

EN ISO 1886, *Reinforcement fibres - Sampling Plans applicable to received batches. (ISO 1886:1990)*

EN ISO 3344, *Reinforcement products - Determination of Moisture Content. (ISO 3344:1997)*

ISO 1043-2, *Plastics – Symbols – Part 2: Fillers and reinforcing materials*

ISO 1887, *Textile glass - Determination of combustible-matter content.*

ISO/CD 15100, *Reinforcement fibres - Chopped Strands - Determination of bulk density.*