



**SLOVENSKI STANDARD**  
**SIST EN 12971-3:2000**  
**01-maj-2000**

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C'U ]hj Y!'GdYWZ\_UWY'nUgbc[d] Y\_fUh\_l `gY\_Ub]`ghY`Yb] `j`U\_Yb!' "XY.  
DcgYVbY'nU hYj Y

Reinforcements - Specification for textile glass chopped strands - Part 3: Specific requirements

Verstärkungen - Spezifikation für geschnittene Textilglasgarne - Teil 3: Technische Produktspezifikation

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Renforts - Spécification de fils de verre coupés - Partie 3: Exigences particulières

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Ta slovenski standard je istoveten z: **EN 12971-3:1999**

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**ICS:**

59.100.10      Materiali iz steklenih vlaken      Textile glass materials

**SIST EN 12971-3:2000**

**en**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

EN 12971-3

May 1999

ICS 59.100.10

English version

Reinforcements - Specification for textile glass chopped strands  
- Part 3: Specific requirements

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Exigences particulières

Verstärkungen - Spezifikation für geschnittene  
Textilglasgame - Teil 3: Technische Produktspezifikation

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

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REPUBLIC OF ITALY  
MINISTRY OF ECONOMIC DEVELOPMENT  
INSTITUTIONAL FRAMEWORK FOR THE  
STANDARDIZATION OF TECHNICAL  
REGULATIONS  
IN THE FIELD OF  
TECHNOLOGY

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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 3 of EN 12971 gives a specification for chopped strands made from continuous filament textile glass. The specification defines those parameters which are specified plus other parameters which may be specified if required for a particular application or processing method.

1.2 The specification does not define absolute or nominal values for any parameter. The value of a specified parameter is defined by the manufacturer but this specification defines the method of test to be used to determine the value of each specified parameter and the tolerance about which the parameter is controlled by the Manufacturer.

1.3 The parameters which are always defined in any chopped strands specification are defined in 4.1. The other parameters which are included in a specification are either nominated by the manufacturer or agreed between manufacture and customer. These parameters are defined in 4.3.

## 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 Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

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 472, *Plastics - Vocabulary.*

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

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

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

## 3 Definitions

For the purposes of this part 3 of EN 12971 the definitions given in ISO 472 apply. Additional terms are defined in part 2 of this standard.

## 4 Specification

### 4.1 Obligatory specified parameters

For each textile glass chopped strand manufactured in accordance with this specification, the manufacturer shall define the nominal values of all the parameter included in Tables 1 and 2.

These parameters are divided into two groups. Those given in Table 1 shall be defined and are subject to control by the manufacturer to the defined tolerances.

Those given in table 2 are required for the designation only and shall be defined but are not subject to control and testing by the manufacturer.

Table 1 - Parameters to be defined and controlled

Parameter	Test method	Tolerance on Nominal	
		Individual	Lot Average
Combustible matter content	ISO 1887	± 40 %	± 20 %
Moisture content	EN ISO 3344		
For dry chopped strands		± 30 %	± 15 %
For wet chopped strands		N/A	± 30 %

Table 2 - Parameters to be defined but not controlled

Parameters
Average fibre length, L
Filament Diameter
Glass type

#### 4.2 Other obligatory information to be included in the specification

The manufacture shall state in the specification the following :

- the application for which the specified chopped strand product has been designed for e.g thermoplastic injection moulding ;
- the resin/polymer/matrix compatibility of the size system e.g : Polyamide, polyester, phenolic etc. ;
- for chopped strands designed to be compatible with non-polymeric systems the manufacturer shall state the matrix compatibility e.g : Portland cement, calcium silicate, etc.

#### 4.3 Optional specified parameters

For each textile glass chopped strand manufactured in accordance with this specification, the manufacture may define the nominal values of all the parameters included in Table 3. When specified these parameters shall be tested in accordance with the methods stated and controlled within the tolerances defined.

Table 3 - Optional parameters

Parameter	Test method	Tolerance on Nominal	
		Individual	Lot Average
Bulk Density	ISO/CD 15100		
Moisture loss in storage	EN ISO 3344		