



SLOVENSKI STANDARD
SIST EN 697:1999

01-marec-1999

Vlaknene vrvi za vsakovrstno uporabo - Poliester

Fibre ropes for general service - Polyester

Faserseile für allgemeine Verwendung - Polyester

Cordages en fibres pour usages divers - Polyester

Ta slovenski standard je istoveten z: EN 697:1995

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ICS:

59.080.50 Vrvi Ropes

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EUROPEAN STANDARD

EN 697

NORME EUROPÉENNE

EUROPÄISCHE NORM

August 1995

ICS 59.080.50

Descriptors: textiles, cordages, polyester resins, designation, specifications, linear density, breaking load, marking

English version

Fibre ropes for general service - Polyester

Cordages en fibres pour usages divers - Polyester Faserseile für allgemeine Verwendung - Polyester

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

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

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Ref. No. EN 697:1995 E

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Foreword

This European Standard has been prepared by the Technical Committee CEN/TC 248 "Textiles and textile products", of which the secretariat is held by BSI.

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of an identical text or by endorsement, at the latest by February 1996, and conflicting national standards shall be withdrawn at the latest by February 1996.

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 and the United Kingdom.

This standard is based on ISO 1141 "Ropes - Polyester - Specification"

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1 Scope

This European standard specifies requirements for 3-strand hawser-laid and 4-strand shroud laid ropes and 8-strand plaited ropes for general service made of polyester and gives rules for their designation.

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 701: 1995 | Fibre ropes for general service - General specification |
| EN 919 | Fibre ropes for general service - Determination of certain physical and mechanical properties |
| ISO 1968 | Ropes and cordage - Vocabulary |

3 Definitions

For the purposes of this standard, the definitions given in ISO 1968 apply.

4 Designation

Fibre ropes shall be designated by

- the words "fibre rope";
- the number of this European standard;
- the construction or type of rope (see clause 5);
- the reference number of the rope;
- the material from which the rope is made.

NOTE: The material from which the rope is made may be indicated either by its full name, polyester, or by means of its abbreviation "PEST".

EXAMPLE:

Designation of a 3-strand hawser-laid rope, reference number 30(A) corresponding to a linear density of 682 ktex made of polyester:

Fibre rope EN 697- A- 30- polyester

5 Types

Polyester ropes produced to this European standard shall be made in one of the following constructions :

- type A: 3-strand hawser-laid rope (see figure 1);
- type B: 4-strand shroud-laid rope (see figure 2);
- type L: 8-strand plaited rope (see figure 3).

Linear density and minimum breaking force shall conform to tables 1, 2 and 3 (see also tables 1 and 2 of EN 701: 1995).

Construction, manufacture, lay, labelling, packaging, invoicing and delivery length, shall conform to EN 701.

6 Marking

The marking shall be carried out in accordance with clause 7 of EN 701: 1995.

Table 1 : 3-strand hawser-laid polyester ropes (type A)

| Reference number ¹⁾ | Linear density ²⁾ | | Minimum breaking force daN |
|--------------------------------|------------------------------|-----------|-------------------------------|
| | nominal ktex | tolerance | |
| 4 | 11.8 | = 10 % | 290 |
| 6 | 27 | | 554 |
| 8 | 48 | | 1000 |
| 10 | 76 | = 8 % | 1560 |
| 12 | 110 | | 2230 |
| 14 | 148 | | 3120 |
| 16 | 195 | = 5 % | 3980 |
| 18 | 245 | | 4980 |
| 20 | 303 | | 6230 |
| 22 | 367 | | 7470 |
| 24 | 437 | | 8960 |
| 26 | 512 | | 10 500 |
| 28 | 594 | | 12 000 |
| 30 | 682 | | 13 400 |
| 32 | 778 | | 15 400 |
| 36 | 982 | | 19 000 |
| 40 | 1210 | | 23 500 |
| 44 | 1470 | | 27 900 |
| 48 | 1750 | | 32 900 |
| 52 | 2050 | | 38 400 |
| 56 | 2380 | | 43 900 |
| 60 | 2730 | 48 900 | |
| 64 | 3110 | 56 800 | |
| 72 | 3930 | 70 700 | |
| 80 | 4850 | 86 700 | |
| 88 | 5870 | 104 000 | |
| 96 | 6990 | 123 000 | |

¹⁾ The reference number corresponds to the approximate diameter in millimetres.

²⁾ The linear density (in kilotex) corresponds to the net mass per length (in grams per metre) or to the mass of rope per length (in kilograms per thousand metres).

³⁾ The linear density is measured under tensile loading for measurement F_c as given in EN 919.