



# SLOVENSKI STANDARD

## SIST EN 1086:1998

01-oktober-1998

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### Vreče za transport živil - Priporočila za določene tipe vreč glede na pakirano vsebino

Sacks for the transport of food aid - Recommendations on the selection of type of sack and the liner in relation to the product to be packed

Säcke für den Transport von Lebensmitteln für die Nahrungsmittelhilfe - Empfehlung für die Auswahl des Sacktyps und der Innensäcke in Bezug auf das zu verpackende Produkt

Sacs pour le transport de l'aide alimentaire - Recommandations pour le choix du type de sac et de la doublure en fonction du produit à emballer

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Ta slovenski standard je istoveten z: EN 1086:1995

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#### **ICS:**

|        |  |   |
|--------|--|---|
| 55.080 | Vreče. Vrečke                          | Sacks. Bags                                       |
| 67.250 | Materiali in predmeti v stiku z živili | Materials and articles in contact with foodstuffs |

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EUROPEAN STANDARD

EN 1086

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 1995

ICS 55.080

Descriptors: Packing, bags, textile packaging, plastic packaging, paper packaging, food products, capacity, categories, specifications, tables (data)

English version

**Sacks for the transport of food aid -  
Recommendations on the selection of type of  
sack and the liner in relation to the product to be  
packed**

Sacs pour le transport de l'aide alimentaire -  
Recommandations pour le choix du type de sac et  
de la doublure en fonction du produit à  
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## CEN

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

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

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## Foreword

This European Standard has been prepared by the Technical Committee CEN/TC 120 "Sacks for the transport of food aid" of which the secretariat is held by NNI.

This Standard is one in a series of standards on sacks for the transport of food aid which are drawn up following a request from CEC.

This European Standard does not pose restrictions to the choice of sack and liner in relation to the product to be packed, but gives recommendations. The recommendations are based on the experience that is gained in this field.

Requirements for the different types of sacks are given in EN 277, EN 765, EN 766, EN 767, EN 768, EN 769, EN 770, EN 787 and EN 788.

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 1995, and conflicting national standards shall be withdrawn at the latest by October 1995.

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. (standards.iteh.ai)

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## 1 Scope

This European Standard gives guidance on the selection of type of sack and the liner in relation to the product to be packed for the transport of food aid.

## 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 277     | Sacks for the transport of food aid - Sacks made of polypropylene fabric                            |
| EN 765     | Sacks for the transport of food aid - Sacks made of polyolefin fabric other than polypropylene only |
| EN 766     | Sacks for the transport of food aid - Sacks made of jute fabric                                     |
| EN 767     | Sacks for the transport of food aid - Sacks made of woven jute/polyolefin fabric                    |
| EN 768     | Sacks for the transport of food aid - Sacks made of lined cotton fabric                             |
| EN 769     | Sacks for the transport of food aid - Sacks made of woven cotton/polyolefin fabric                  |
| EN 770     | Sacks for the transport of food aid - Paper sacks   |
| EN 787     | Sacks for the transport of food aid - Sacks made of polyethylene film                               |
| EN 788     | Sacks for the transport of food aid - Tubular sack packages made of composite film                  |
| ISO 5636-5 | Paper and board - Determination of air permeance (medium range) - Part 5: Gurley method             |

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### 3 Recommendation on the type of sack and the liner in relation to the product to be packed

The type of sack and the liner used for the transport of food aid should be chosen as given in table 1.

The sack shall comply with the relevant European Standard for the type of sack, i.e. for sacks with the outer ply made from fabric of:

- polypropylene: see EN 277;
- polyolefin other than polypropylene: see EN 765;
- jute: see EN 766;
- jute/polyolefin: see EN 767;
- cotton: see EN 768;
- cotton/polyolefin: see EN 769;
- paper: see EN 770;
- polyethylene film: see EN 787;
- composite film (tubular sacks): see EN 788.

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Table 1

| Product  | Type of sack   | Examples  |
|--|--|---|
| Skimmed milk powder<br>(vitaminised)<br>1kg and 2 kg | <u>Bags of PE-film</u><br>Min. tensile force:<br>7,5 N/15 mm at 15%<br>elongation (see EN 787).<br>Impact resistance of the<br>film: mass for 50 % fail-<br>ure not less than 120 g.<br>(see EN 787)   | Laminated film<br>12 µm PET<br>+ 9 µm Alu<br>+ 70 µm PE-LD  |
|  | or<br><u>Bags of laminated film</u><br>Min. tensile strength<br>50N/15 mm.<br>Oxygen transmission of<br>max. 0,1 cm <sup>3</sup> /(m <sup>2</sup> .24h)<br>(see EN 788).   |   |
| Skimmed milk powder<br>(vitaminised)<br>25 kg        | <u>Sacks of polyolefin fa-<br/>bric</u>  | Sacks made of a PP or PE-<br>HD fabric<br>Mass 66 g/m <sup>2</sup> ,<br>laminated with PE-LD,<br>total mass 130 g/m <sup>2</sup><br>with a liner of<br>80 µm PE-LD  |
|  | <u>Sacks of paper</u><br>At least 3 plies.<br>Paper plies together<br>420 J/m <sup>2</sup> TEAVERAGE (see<br>EN 770) 90/sist-en-1086-1998<br>Second ply PE-coated at<br>least 15g/m <sup>2</sup> (12g/m <sup>2</sup> for<br>"cap-coating").<br>1 inside PE-sack with<br>heat-sealed bottom.<br>By use of PE-LD:<br>handclosure 80 µm<br>machineclosure 120 µm. | 1 ply of sackpaper 85 g/m <sup>2</sup><br>1 ply of coated sackpaper<br>70g/m <sup>2</sup> + 15g/m <sup>2</sup> PE<br>2 plies of sackpaper<br>70g/m <sup>2</sup><br>1 inside PE sack 120 µm<br>with heat-sealed bottom<br><br><u>Or</u><br>1 ply semi-extensible<br>sackpaper 95g/m <sup>2</sup><br>1 ply coated semi-extensi-<br>ble<br>sackpaper 95g/m <sup>2</sup> + 15g/m <sup>2</sup><br>PE<br>1 ply semi-extensible<br>sackpaper 85g/m <sup>2</sup><br>1 inside PE-sack 120 µm<br>with heat-sealed bottom<br><br><u>or</u><br>Equivalent |

continued

Table 1 (continued)

| Product      | Type of sack   | Examples  |
|--------------|--|---|
| Grains 50 kg | <u>Sacks of polyolefin fabric</u>  |   |
|              | <u>PP</u>  | Sacks with a min. mass of 120g/sack   |
|              | <u>PE-HD</u>   | Sacks made of a fabric min. mass 85g/m <sup>2</sup>   |
|              | <u>PP/PE-HD</u>  | Sacks made of a fabric min. mass 66g/m <sup>2</sup>   |
|              | <u>Sacks of jute fabric</u>  | New sacks with a min. mass of 600g/sack   |
|              | <u>Sacks of jute/polyolefin fabric</u>   | Sacks with a min. mass of 335g/sack   |
| Grains 25 kg | <u>Sacks of paper</u><br>At least 3 plies.<br>Plies together 680 J/m <sup>2</sup><br>TEAAVERAGE (see EN 770)   | 4 plies of extensible sackpaper of 80g/m <sup>2</sup> each  |
|              |  | <u>OR</u><br>3 plies of extensible sackpaper of 80g/m <sup>2</sup> each<br>1 ply of woven polyolefine |
|              |  | <u>OR</u><br>Equivalent   |
|              | <u>Sacks of polyolefin fabric</u>  |   |
|              | <u>PP</u>  | Sacks with a min. mass of 75g/sack  |
|              | <u>PP/PE-HD</u>  | Sacks with a min. fabric mass 66g/m <sup>2</sup>  |
|              | <u>Sacks of jute fabric</u>  | New sacks with a min. mass of 250g/sack   |
|              | <u>Sacks of jute/polyolefin fabric</u>   | Sacks with a min. mass of 230g/sack   |
|              | <u>Sacks of Paper</u><br>At least two plies.<br>Plies together 510 J/m <sup>2</sup><br>TEAAVERAGE (see EN 770) | 3 plies of extensible sackpaper of 80g/m <sup>2</sup> each  |
|              |  | <u>OR</u><br>2 plies of extensible sackpaper of 80g/m <sup>2</sup> each<br>1 ply of woven polyolefine |
|              |  | <u>OR</u><br>Equivalent   |

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Table 1 (continued)

| Product     | Type of sack  | Examples  |
|-------------|---|---|
| Flour 50 kg | <u>Sacks of polyolefin fabric</u>   |   |
|             | PP  | Sacks with a min. mass of 120g/sack   |
|             | PE-HD or PE-HD/PP   | Sacks made of a fabric with a min. mass of 66g/m <sup>2</sup> laminated with PE-LD, total mass of 130 g/m <sup>2</sup><br>Valved sacks lined with extensible paper 70g/m <sup>2</sup> with a high porosity (Gurley method ca. 4 sec., see ISO 5636-5) |
|             | <u>Sacks of jute fabric</u>   | New sacks with a min. mass of 600g/sack<br><br><u>OR</u><br>New sacks made of two plies with a total mass of 1000g/sack<br><br><u>OR</u><br>1 ply of jute fabric with a min. mass of 370g/sack<br>1 ply of PP fabric with a min. mass of 110g/sack    |
|             | <u>Sacks of lined cotton</u>  | 1 ply of cotton fabric with a min. mass of 180g/sack<br>1 innerply of woven PP with a min. mass of 110g/sack  |
|             |   | <u>OR</u><br>2 plies of cotton fabric with a min. mass of 180g/sack each  |
|             | <u>Sacks of jute/polyolefin fabric</u>  | Sacks with a min. mass of 335g/sack   |
|             | <u>Sacks made of paper</u><br>At least three plies.<br>Plies together 680 J/m <sup>2</sup><br>TEAAVERAGE (see EN 770) | 4 plies of extensible sackpaper of 80g/m <sup>2</sup> each<br><br><u>OR</u><br>3 plies of extensible sackpaper of 80g/m <sup>2</sup> each<br>1 ply of woven polyolefin<br><br><u>OR</u><br>Equivalent   |

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