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THE STATE FLAG OF UKRAINE General technical specifications

DSTU 4512:2006

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THE STATE FLAG OF UKRAINE

General technical specifications

THE GOSUDARMVENTENNY FLAG OF UKRAINE

Classical sloviya

THE STATE FLAG OF UKRAINE

General technical specifications

Vals from 2006-09-01

1 SCENES OF APPLICATION

The requirements of this standard apply to the State Flag of Ukraine (hereinafter referred to as the flag), which is made of fabrics. This standard sets the general technical specifications for its manufacture, as well as the requirements for the reproduction of its colors (see. Annex A) in printing production (on paper, metal surfaces, etc.) and with the help of paints and varnishes (on metal, wooden surfaces, etc.).

This standard does not apply to other flags imizing the national flag.

2 NORMATIVE LINGHTS

This standard contains references to the following regulatory documents:

DSTU 4513:2006 The range of color and standard samples of materials and paints. Procedure for development, certification, approval and approval

DSTU 2201-93 textile canvases. Types, defects. Terms and definitions

DSTU 4067-2002 Textile materials. Method for assessing the stability of coloring by means of measuring equipment. Definition of standard color saturation (ISO 105-A06:1995, NEQ)

DSTU ISO 4915:2005 Textile materials. Types of stitches. Classification and terminology of DSTU ISO

4916:2005 Textile materials. Types of seams. Classification and terminology

GOST 8.315-97 GSI. Standard images of the compositions and properties of the veshchelya and materials. Basic provisions (Standard samples of composition and properties of substances and materials. Basic provisions)

GOST 12.1.003-83 SSBT. Noise. General need for besiety (noise. General safety requirements)

GOST 12.1.004-91 SSBT. Scale unregence. General need (Fire safety. General requirements)

GOST 12.1.005-88 SSBT. General sanitary and hygienic need for the air of the working zone (General sanitary and hygienic requirements for the air of the working area)

GOST 12.1.019-79 SSBT. Electrodepasion. General need for nomenclature of ovation (Electrical security. General requirements for the nomenclature of types of protection)

GOST 12.1.044-89 SSBT. Fires of the volatility of the veshchelstvos and materials. Nomenclature of indications and methods of their determination (Fire and explosion hazard of substances and materials. Nomenclature of indicators and methods of their determination)

GOST 12.2.003-91 SSBT. Obrovatovanye proizvodstvennoe. General need for safety (In production equipment. General safety requirements)

GOST 12.2.007.0-75 SSBT. Izdeliya electric. General need for safety (Electrotechnical products. General safety requirements)

GOST 12.2.049-80 SSBT. Obrovatovanye proizvodstvennoe. General ergonomic need of safety (Instance production. General ergonomic safety requirements)

GOST 12.4.011-89 SSBT. Reeds of the workers. General need and classiffians- (Means of protection of workers. General requirements and classification)

GOST 12.4.021-75 SSBT. Ventilation systems. General requirements (Ventilation General requirements systems)

GOST 15.007-88 System of production and production of production. Products of light industry. Basic provisions (System of development and supply of products for production. Products of light industry)

GOST 17.2.3.02-78 Precipitation of Nature. Atmosphere. Rules for establishing permissible vybrosov in advanced veshchenyvyh preprisyatry (Environmental protection. Atmosphere. Rules for determining permissible emissions of harmful substances by industrial enterprises)

GOST 3811-72 Materials textile. Cloths, non-woven fabrics and artificial izdeliya. Methods of dedevoleation of linenaousrazms, line and surface rafts (textile materials. Fabric, nonwovens and piece products. Methods for determining linear dimensions, linear and surface densities)

GOST 7000-80 Materials textile. Packaging, marking, transported and gene (textile materials. Packaging, labeling, transportation and storage)

GOST 7625-86 Bougaette. Technical Usloviya (Paper label. Technical specifications)

GOST 7730-89 Plenka Zellulosnaya. Technical osviya (Pelly pulp. Technical specifications)

GOST 7933-89 Cardboard for the need for the Tarta. General technical sloviya (Cardboard for consumer containers. General technical conditions)

GOST 8273-75 Bouga rotary. Technical Ussiria (Paper wrapping. Technical specifications)

GOST 9733.0-83 Textile materials. General need for methods is experienced by the ostryatvyatovye of the decoration of the physical and chemical recimaties (Tyryst materials. General requirements for methods of testing the duration of painting with respect to physicochemical influences)

GOST 9733.1-91 Textile materials. Methods are superstitious tysuticals of the decoration of the light (Trect-text materials. Methods of testing the durability of paint relative to light)

GOST 9733.2-91 Textile materials. Method of ostryatyastist of decoration weather (Materials textile. Method of testing the duration of dyeing with respect to weather impact)

GOST 9733.4-83 Textile materials. Method of stitution of the estuary of the coloring (textile materials. Method of testing the durability of paint in relation to washing)

GOST 9733.13-83 Materials textile. Method of examination of the estuary of the decorations to organic creators (Materials of textiles. Method of testing the duration of coloring in relation to organic solvents)

GOST 9733.27-83 Textile materials. Method of stitution of the estuary of the decoration (textile materials. Method of testing the duration of coloring with respect to friction)

GOST 10354-82 Plenko polyethylene. Technical sloviya (Pwythyl film. Technical specifications)

GOST 10681-75 Textile materials. Climatic Uslovia for conditioning and examination of samples and methods of osdelemenia (Materials of textile. Climatic conditions for air conditioning and testing of samples and methods of their determination)

GOST 11600-75 Bouga require packaging of textile materials and izdelya. Technical Uslovia (paper for packaging of textile materials and products. Technical specifications)

GOST 18510-87 Buchastya. Technical paper (written. Technical specifications)

GOST 20566-75 Tissing and artificial textile. Rules of the ray and the method of sampling (Tilk and piece products textile. Acceptance rules and method of sampling)

GOST 23627-89 Izdeliya textile-galantine, oknye, quileny, vivitye, knitted, footwear and artificial. Norms of estuation of ornaments and methods of e-dedelenaya (Products of textile-galate, woven, woven, curtain, bound, footwear and piece. Norms of durability of painting and methods of its determination)

GOST 27487-87 Electroregovaniy proizvodstvennyye machines. General technical need and methods are tested (Electrical equipment of production machines. General technical requirements and test)

GOST 29319-92 Materials of lacocoscoc. Method of visual ravine of the color (paint materials. Method of visual color comparison).

3 TERMS AND DECISIONS OF CONCEPTS

This standard uses the terms established in DSTU 2201.

Below are the terms used in this standard, and the definitions of the concepts they designated:

3.1 standard color sample; SZ color

Made according to certain rules, a certain amount of material (paint) that serves as a means of measuring with the values of the coordinates of color and color of such material (paint) established as a result of metrological certification, which is intended for reproduction and storage of the values of the coordinates of color and color and which is used in the case of control of the color of this material (paint) during its production, storage and use

3.2 color coordinates

Three numbers that determine in what quantities it is necessary to mix the components of the radiation that correspond to the individual colors to obtain a colorimetric equality with the measured color

3.3 color coordinates

The ratio of each of the coordinates of the color to their sum

3.4 Story

Left edge of the flag, designed for its fastening with a falloe

3.5 pocket

The left edge of the flag, designed for its fastening with a staff.

4 GENERAL TECHNICAL REQUIREMENTS

4.1 The national flag of Ukraine is a rectangular panel, which consists of two equal widths of horizontally arranged strips: the upper — blue, the lower one — yellow, with a ratio of the width of the flag to its length 2:3.

4.2 The flag is made of fabrics of small-sized weave, made from chemical (viscos, polyester and polyamide) painted and unpainted threads.

The fabric should be cer.

The color of the fabric must correspond to the color of the SZ, developed, certified and approved in accordance with DSTU 4513. The coordinates of the color of the blue and yellow strip of the flag shall correspond to the values given in Table 1 in accordance with Figure 1, according to the geometry of lighting/observation O/d according to the measurement scheme presented in Annex B.

Table 1

Color	Designation coordinates	Coordinates of the color of the angular points of the color areas					Coordinate Color Y
		1	2	3	4	5	
Blue	x	0.091	0.248	0.307	0.307	0.124	More than 0.085
	y	0.132	0.334	0.334	0.280	0.057	
Yellow	x	0.575	0.539	0.507	0.512		More than 0.70
	y	0.424	0.410	0.450	0.486		

4.3 In the technical description of the flag, it is necessary to indicate the fabric used for the manufacture of the flag, the linear density of threads, the number of threads by 10 cm, the surface density, the tearing load, the size of the flag, the processing methods, the types and numbers of the sewing threads, the types and parameters of the seams in the lines, the frequency of stitches, the methods of processing the sections, the fastening of the ends of the lines.

Figure 1 — Graph of color plots for strips of the State Flag of Ukraine

4.4 The fabric for the flag in appearance and colors must correspond to the standard samples approved in accordance with GOST 15.007, which must be stored in the SE "Ukrmetrteststandard".

Working samples-standards should be stored at the manufacturer, they must correspond to the standard samples.

4.5 The dimensions of the flag are set in agreement with the customer. Permissible deviations from the size of the flag in length and width should not be more than $\pm 2\%$.

4.6 The colored strips of the flag can be obtained:

- weesh way;
- sewing colored panels;
- way of knocking out.

4.7 The spread of the flag panel must be performed in the direction of the base of the fabric.

4.8 In the width of the colored strip of the flag is more than one meter, it is permissible to sew individual panels with a cushioning seam or seam of locks in accordance with DSTU ISO 4916.

4.9 The joint of the flag along the length of the canvas should be performed with a seam in a bend with a closed cut from 0.3 cm to 1.0 cm in accordance with DSTU ISO 4915 and DSTU ISO 4916 with seamstuff threads that correspond to the tone of the rumg, the flag's jointing along the width of the canvas should be performed by sewing threads, which correspond to the tone of each of the two components.

It is permissible to sew the flag on the width of the canvas with colorless threads.

The tape should be flat, the ends of the stitching are fixed with a backing stitch with a length of at least 1.0 cm. The stitch frequency should be from 15 to 20 stitches by 5.0 cm.

4.10 Flags are made with two types of fastening:

- on the staff with the help of a pocket;

- on the fal with the help of a sill.

The width of the pocket should be at least 5% of the flag length, but not exceed 10 cm.

The width of the side is from 3.0 cm to 3.5 cm.

At the request of consumers, the flag with a sockbox is equipped with a phal from synthetic threads.

4.11 The following defects do not allow the finished flags: holes, cuttings, scuba dips, braces larger than 0.5 cm, contaminated and colored threads, spots of more than 0.5 cm, lack of more than 0.2 cm, adjoining foreign elements, separation of poorly fitting base, squistines larger than 10 cm, noticeably pronounced strips on the base and on the flow of the fabric, different shades of the fabric.

5 SAFETY REQUIRES

5.1 Production facilities must meet the requirements of SNiP 2.09.02 1[1] and DNAOP 0.03-3.01 2[2].

5.2 Technological equipment must meet the requirements of GOST 12.2.003, GOST 12.2.049, electrical equipment — GOST 12.2.007.0 and GOST 27487.

5.3 The level of the electrostatic field in the workplace during the production of fabrics should not exceed 20.0 V/m in accordance with CN 1757 3[3].

5.4 Production facilities should be equipped with supply and exhaust ventilation in accordance with GOST 12.4.021 and SNiP 2.04.05 4[4].

Places of possible secretion of hazardous chemicals should be equipped with local exhaust devices.

5.5 Permissible noise level during the production of fabrics — according to GOST 12.1.003.

5.6 Parameters of the microclimate in the workplace during the manufacture of fabrics should correspond to HN 4088 5[5] and GOST 12.1.005.

5.7 Lighting in the workplace must comply with SNIP 11.4 6[6].

5.8 Workers who make fabric should use personal protective equipment in accordance with GOST 12.4.011 and "Regulations on the order of provision of workers of special equipment, special and second media of individual protection", approved by the order of the State Supervision of Labor of Ukraine dated 29.10.96 No 170.

5.9 The procedure for accumulating, neutralizing and burying industrial waste of masses to meet the requirements of the CN 3183 7[7].

5.10 Indicators of fire-explosive hazard — according to GOST 12.1.044. Fire protection — according to GOST 12.1.004.

5.11 Electrical safety requirements — according to GOST 12.1.019.

6 ENVIRONGY PROTECTION REQUIRES

6.1 Environmental protection is carried out in accordance with the requirements of DSP 201 8[8].

6.2 Sold water must meet the requirements of SanPyN 4630 [9].

6.3 Soil protection from pollution by industrial and household waste is carried out in accordance with the requirements of SanPiN 42-128-4690 [10].¹⁰

6.4 Controlling emissions of hazardous substances into the atmosphere — in accordance with GOST 17.2.3.02.

7 MARKING

7.1 A commodity label shall be attached to the flag (in one of the corners), indicating the following details:

- name of the manufacturer, its legal address;
- trademark of the manufacturer (if any);
- name of the product;
- dimensions of the product;
- composition of raw materials;
- designation of this standard;
- date of manufacture;
- stamp certifying the acceptance of the product;
- sign of care.

7.2 A shortcut is attached to each packaging indicating the details, according to 7.17.1, as well as the number of flags in the packaging.

In case of packing the flag in a film of polymeric materials in accordance with GOST 10354, the packaging label can be encased under the polymer film.

7.3 The size of the label should not exceed 80 mm × 120 mm. Paper for labels must meet the requirements of GOST 7625, GOST 8273, GOST 11600, GOST 18510, or other regulatory documentation in agreement with the consumer. The label is filled in a typographical way.

7.4 Transport marking — in accordance with GOST 7000.

8 PACKAGE

8.1 Packing flags pre-packed in paper of 10, 15, 25, 50 pieces or in other quantities in agreement with the customer, is carried out in cardboard boxes or bags or in cellophane bags. Packaging materials must meet the requirements of GOST 7730, GOST 7933, GOST 8273, GOST 10354 or GOST 11600.

8.2 Flag packaging should ensure the safety of their presentation and quality in the process of storage, transportation and sale.

8.3 Packaging is banded with ribbon, slut, twine from various types of raw materials or from waste of own production.

8.4 Transport packaging of flags must comply with GOST 7000.

9 RULES OF TRANSPORTATION AND STORAGE

Transportation and storage — in accordance with GOST 7000.

10 METHODS OF CONTROLLING

10.1 Sampling — according to GOST 20566.

10.2 Determination of linear dimensions — according to GOST 3811.

10.3 Controlling the color characteristics of the flag fabric — in accordance with the requirements of DSTU 4067 or according to standard color samples — according to DSTU 4513 by visual comparison in accordance with GOST 9733.0. At the same time, it is believed that the sample-standard is described in the score 4. If necessary, samples of color are made according to the same rules as standard samples.

10.4 Standards of durability of painting — according to GOST 23627.

10.5 Determining the degree of durability of painting to the action of various physical and chemical factors — in accordance with GOST 9733.0, GOST 9733.1 GOST 9733.2, GOST 9733.4, GOST 9733.13, GOST 9733.27.

10.6 Tissues are tested in climatic conditions in accordance with GOST 10681. Before testing, point (or elementary) samples of the tissue are kept in these conditions in unfolded form for at least 24 hours.

11 RULES OF ACQUESTION

Acceptance of ready-made flags — in accordance with GOST 20566.

12 GUARANTEES OF THE MANUAL

12.1 The manufacturer guarantees compliance with the quality of the flags with the requirements of this standard in case of compliance with the conditions of transportation and storage.

12.2 Warranty period of storage — 5 years from the date of manufacture.

APPLICO A (reference)

REPROBAL OF THE FLAG COLLARS

A.1 Reproduction of flag colors in printing production

In the case of an image of the flag in the printing production, the reproduction of its colors (on paper, metal surfaces, etc.) can be carried out using the technique and technology of offset, high offset, flexographic, screen, tampon, deep or other printing methods. In this case, if necessary, a set of colors is used [11]. The blue color should correspond to No. 2935 C, and yellow should correspond to the 012 color set.

Note. Application of atlases (sections) of colors — in accordance with 3.2 DSTU 4513, 4.5 and Annex A GOST 8.315.

A.2 Reducing the colors of the flag with the help of paints and varnish materials

In case of reproduction of the colors of the flag with the help of paints and varnishes (on metal, wooden surfaces, etc.), as needed, standard color samples are used in accordance with DSTU 4513 and GOST 29319. It is permissible to use a set of colors [11] as shown in A.1A.1.

APPARAST B (reference)

SCHEME OF MEASUREMENT OF COORDINATISTICS OF TISSUE COLORNE

Figure B.1 — Scheme for measuring the coordinates of the color of the fabric

The total area of the openings in the photometric sphere should not exceed 1% of the inner surface of the sphere. Recording of radiation should be performed by a receiver with a nozzle, which leads its sensitivity to cosine. Between the sample and the receiver there must be a screen so that the radiation reflected from the sample does not fall into the receiver. If the fabric transmits light, it should be folded several times.

Measurement should be performed in the range from 380 nm to 760 nm through 10 nm by comparison with a certified sample of milk glass. It is permissible to use any spectral devices that are built according to this scheme.

APPAR IN (reference)

MY COLLARS THE STATE FLAG OF UKRAINE



APPARECRe G

(reference)

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