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## **Size Measurements for Men's and Boys' Shorts (Woven Fabrics)**

A RECORDED VOLUNTARY STANDARD OF THE TRADE

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### **COMMODITY STANDARDS**

Simplified Practice Recommendations and Commercial Standards are developed by manufacturers, distributors, and users in cooperation with the Commodity Standards Division of the Office of Industry and Commerce, Bureau of Foreign and Domestic Commerce, and with the National Bureau of Standards.

The purpose of Simplified Practice Recommendations is to eliminate avoidable waste through the establishment of standards of practice for stock sizes and varieties of specific commodities that currently are in general production and demand. The purpose of Commercial Standards is to establish standard methods of test, rating, certification, and labeling of commodities, and to provide uniform bases for fair competition.

The adoption and use of a Simplified Practice Recommendation or a Commercial Standard is voluntary. However, when reference to a Commercial Standard is made in contracts, labels, invoices, or advertising literature, the provisions of the standard are enforceable through usual legal channels as a part of the sales contract.

A Simplified Practice Recommendation or a Commercial Standard originates with the proponent industry. The sponsors may be manufacturers, distributors, or users of the specific product. One of these three elements of industry submits to the Commodity Standards Division the necessary data to be used as the basis for developing a standard of practice. The Division, by means of assembled conferences or letter referenda, or both, assists the sponsor group in arriving at a tentative standard of practice and thereafter refers it to the other elements of the same industry for approval or for constructive criticism that will be helpful in making any necessary adjustments. The regular procedure of the Division assures continuous servicing of each effective Simplified Practice Recommendation and Commercial Standard, through review and revision, whenever, in the opinion of the industry, changing conditions warrant such action. Simplified Practice Recommendations and Commercial Standards are printed and made available by the Department of Commerce through the Government Printing Office and the Department of Commerce field offices.

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**UNITED STATES DEPARTMENT OF COMMERCE**

**Charles Sawyer, Secretary**



U. S. DEPARTMENT OF COMMERCE

CHARLES SAWYER, Secretary

BUREAU OF FOREIGN AND DOMESTIC  
COMMERCE

Office of Industry and Commerce

H. B. McCoy, Director

IN COOPERATION WITH

NATIONAL BUREAU OF STANDARDS

E. U. CONDON, DIRECTOR

# Size Measurements for Men's and Boys' Shorts (Woven Fabrics)

(SECOND EDITION)

[Effective March 2, 1951]

## 1. PURPOSE

1.1 The purpose of this commercial standard is to provide standard methods of measuring and standard minimum measurements for men's shorts, and standard measurements and tolerances for boys' shorts (woven fabrics), in order to eliminate confusion resulting from a diversity of measurements, and, to provide a uniform basis for guaranteeing full size.

## 2. SCOPE

2.1 This standard covers methods of measuring men's and boys' shorts made from woven fabrics. It includes standard measurements and tolerances for boys' boxer and regular type (panel-back) shorts; and standard minimum measurements for men's boxer shorts, and for men's panel-back and center-seam-back shorts. The standard also carries a recommended means of identification through labeling of these garments when produced in conformity with the standard.

## 3. APPLICATION

3.1 The methods and measurements given herein are applicable to finished garments as delivered by the manufacturer.

## 4. STANDARD METHODS OF MEASURING

4.1 *Methods of measuring.*—The garment to be measured is buttoned and laid out without tension (except as otherwise noted) on a smooth, flat surface so that creases and wrinkles will not affect the measurements. Measurements are taken to the nearest  $\frac{1}{8}$  inch.

4.2 *Total length.*—Measured from top outside edge of waistband to lower edge of leg. (*A* to *B*, fig. 1.)

4.3 *Thigh.*—Measured from bottom of crotch across leg parallel to lower edge of leg to outside edge. (*C* to *D*, fig. 1.)

4.4 *Waist, around.*—Measured between outside edges of waistband. (Twice *A* to *E*, fig. 1.)

4.5 *Leg width.*—Measured across leg along lower edge. (*F* to *B*, fig. 1.)

4.6 *Front rise.*—Measured from bottom of crotch, including width of seam, up front of garment to middle of front edge of waistband. (*C* to *H*, fig. 1.)

4.7 *Back rise*.—Measured from bottom of crotch, not including width of seam, up back of garment to middle of back edge of waistband. (*C* to *J*, fig. 1.)

4.8 *Width across inseam*.—Measured from inside corner of one leg to other leg. Legs spread and inseam stretched taut in straight line. (*G* to *C*, to *F*, fig. 1.)

4.9 *Front opening*.<sup>1</sup>—Measured from bottom of opening to top edge of waistband. (*K* to *H*, fig. 1.)

4.10 *Width across seat*.—Measured across back of garment at a point  $2\frac{1}{4}$  inches above bottom of crotch (table 1) for boys' shorts, and 3 inches above bottom of crotch (tables 2, 3, and 4) for men's shorts. (*M* to *N*, fig. 1.)

## 5. STANDARD MEASUREMENTS

5.1 Standard body measurements for boys, and standard measurements and tolerances for boys' boxer and regular type (panel-back) woven shorts, based on these body measurements, are shown in table 1.

5.2 Standard minimum measurements for men's panel-back shorts, center-seam-back shorts, and boxer shorts are given in tables 2, 3, and 4.

TABLE 1. *Shorts, boys'—standard body measurements,<sup>1</sup> and standard garment measurements*

Size numbers.....	Boys' body measurements						
	6	8	10	12	14	16	
Height.....in.	46	50	54	58	61	64	
Weight.....lb.	49	59	73	87	100	115	
Waist.....in.	22½	23½	24½	25½	26½	27½	
Location	Garment measurements (woven shorts)						Tolerances
	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>
Total length.....	10¾	11½	12¼	13	13¾	14½	±½
Thigh.....	10¼	10¾	11¼	11¾	12¼	12¾	±½
Waist:							
a. Elastic all around.....	18	18¾	19½	20¼	21	21¾	±½
b. Elastic at sides or back <sup>2</sup> .....	20	21	22	23	24	25	±½
Leg width.....	9	9½	10	10½	11	11½	±½
Front rise.....	9	9½	10	10¾	11½	12¼	±½
Back rise.....	14½	15	15½	16¼	17	17¾	±½
Width across seat.....	16	17	18	19	20	21	±½
Width across inseam.....	6½	7	7½	8	8½	9	±½

<sup>1</sup> Commercial Standard 155-50, Body Measurements for the Sizing of Boys' Apparel.

<sup>2</sup> The total amount of elastic showing in finished garment at rest shall be not less than 6 inches for each size.

<sup>1</sup> Given as a guide only, not as a standard.

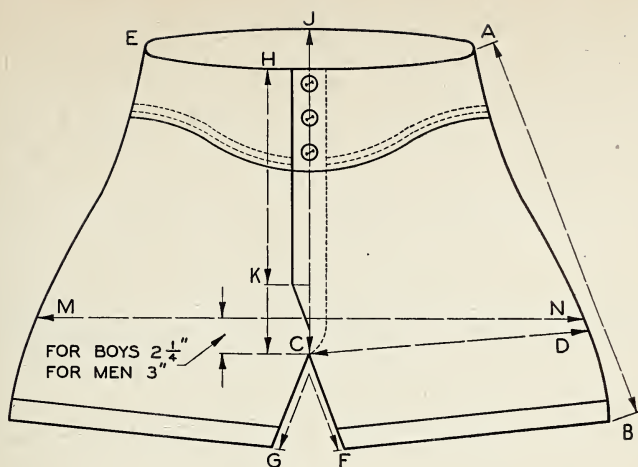


FIGURE 1. *Shorts.*

TABLE 2. *Shorts, men's panel-back—standard minimum measurements*

(U. I. Wov-M1)

Location	Size											
	28	30	32	34	36	38	40	42	44	46	48	50
Total length.....	16	16½	16½	17	17	17½	17½	18	18	18½	18½	19
Thigh.....	13¾	14¾	14¾	15¼	15¾	16¼	16¾	17¼	17¾	18¼	18¾	19¼
Waist:												
a. Elastic all around.....	24	26	28	30	32	34	36	38	40	42	44	46
b. Elastic at sides or back <sup>1</sup> .....	26	28	30	32	34	36	38	40	42	44	46	48
c. Strap at back <sup>2</sup> .....	28½	30½	32½	34½	36½	38½	40½	42½	44½	46½	48½	50½
d. Strap at sides.....	28½	30½	32½	34½	36½	38½	40½	42½	44½	46½	48½	50½
e. Tie strings at sides <sup>3</sup> .....	28½	30½	32½	34½	36½	38½	40½	42½	44½	46½	48½	50½
Leg width.....	11½	12	12½	13	13½	14	14½	15	15½	16	16½	17
Front rise.....	12¼	12¾	12¾	13¼	13¼	13¾	13¾	14¼	14¼	14¾	14¾	15¼
Back rise.....	18	18½	18½	19	19	20	20	21	21	22	22	22
Width across inseam.....	11	11	11	11	11	11	11	11	11	11	11	11
Width across seat.....	21	22	23	24	25	26	27	28	29	30	31	32
Front opening <sup>4</sup> .....	9¼	9¾	9¾	10¼	10¼	10¾	10¾	11¼	11¼	11¾	11¾	12¼

<sup>1</sup> The total amount of elastic showing in finished garment at rest shall be not less than 6 inches for each size.

<sup>2</sup> Straps shall be so buttoned that all buttonholes on straps are filled with buttons.

<sup>3</sup> Ties shall be entirely loosened.

<sup>4</sup> Given as a guide only, not as a standard.



TABLE 3. *Shorts, men's center-seam-back—standard minimum measurements*  
(U. I. Wov-M2)

Location	Size											
	28	30	32	34	36	38	40	42	44	46	48	50
	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>
Total length.....	16	16 $\frac{1}{4}$	16 $\frac{1}{2}$	16 $\frac{3}{4}$	17	17 $\frac{1}{2}$	17 $\frac{3}{4}$	17 $\frac{3}{4}$	18	18 $\frac{1}{4}$	18 $\frac{1}{2}$	18 $\frac{3}{4}$
Thigh.....	13 $\frac{3}{4}$	13 $\frac{3}{4}$	14 $\frac{1}{4}$	14 $\frac{1}{4}$	15 $\frac{1}{4}$	15 $\frac{3}{4}$	16 $\frac{1}{4}$	16 $\frac{3}{4}$	17 $\frac{1}{4}$	17 $\frac{3}{4}$	18 $\frac{1}{4}$	18 $\frac{3}{4}$
Waist:												
a. Elastic all around.....	24	26	28	30	32	34	36	38	40	42	44	46
b. Elastic at sides or back <sup>1</sup> .....	26	28	30	32	34	36	38	40	42	44	46	48
c. Strap at back <sup>2</sup> .....	28 $\frac{1}{2}$	30 $\frac{1}{2}$	32 $\frac{1}{2}$	34 $\frac{1}{2}$	36 $\frac{1}{2}$	38 $\frac{1}{2}$	40 $\frac{1}{2}$	42 $\frac{1}{2}$	44 $\frac{1}{2}$	46 $\frac{1}{2}$	48 $\frac{1}{2}$	50 $\frac{1}{2}$
d. Strap at sides.....	28 $\frac{1}{2}$	30 $\frac{1}{2}$	32 $\frac{1}{2}$	34 $\frac{1}{2}$	36 $\frac{1}{2}$	38 $\frac{1}{2}$	40 $\frac{1}{2}$	42 $\frac{1}{2}$	44 $\frac{1}{2}$	46 $\frac{1}{2}$	48 $\frac{1}{2}$	50 $\frac{1}{2}$
e. Tie strings at sides <sup>3</sup> .....	28 $\frac{1}{2}$	30 $\frac{1}{2}$	32 $\frac{1}{2}$	34 $\frac{1}{2}$	36 $\frac{1}{2}$	38 $\frac{1}{2}$	40 $\frac{1}{2}$	42 $\frac{1}{2}$	44 $\frac{1}{2}$	46 $\frac{1}{2}$	48 $\frac{1}{2}$	50 $\frac{1}{2}$
Leg width.....	11 $\frac{1}{2}$	12	12 $\frac{1}{2}$	13	13 $\frac{1}{2}$	14	14 $\frac{1}{2}$	15	15 $\frac{1}{2}$	16	16 $\frac{1}{2}$	17
Front rise.....	11 $\frac{1}{4}$	11 $\frac{3}{4}$	12 $\frac{1}{4}$	12 $\frac{3}{4}$	13 $\frac{1}{4}$	13 $\frac{3}{4}$	14 $\frac{1}{4}$	14 $\frac{3}{4}$	15 $\frac{1}{4}$	15 $\frac{3}{4}$	16 $\frac{1}{4}$	16 $\frac{3}{4}$
Back rise.....	17	17 $\frac{1}{2}$	18	18 $\frac{1}{2}$	19	19 $\frac{1}{2}$	20	20 $\frac{1}{2}$	21	21 $\frac{1}{2}$	22	22 $\frac{1}{2}$
Width across inseam.....	11	11	11	11	11	11	11	11	11	11	11	11
Width across seat.....	20	21	22	23	24	25	26	27	28	29	30	31
Front opening <sup>4</sup> .....	9 $\frac{1}{4}$	9 $\frac{1}{2}$	9 $\frac{3}{4}$	10	10 $\frac{1}{4}$	10 $\frac{1}{2}$	10 $\frac{3}{4}$	11	11 $\frac{1}{4}$	11 $\frac{1}{2}$	11 $\frac{3}{4}$	12

<sup>1</sup> The total amount of elastic showing in finished garment at rest shall be not less than 6 inches for each size.

<sup>2</sup> Straps shall be so buttoned that all buttonholes on straps are filled with buttons.

<sup>3</sup> Ties shall be entirely loosened.

<sup>4</sup> Given as a guide only, not as a standard.

TABLE 4. *Shorts, men's boxer—standard minimum measurements*

Location	Size											
	28	30	32	34	36	38	40	42	44	46	48	50
	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>	<i>in.</i>
Total length.....	16	16 $\frac{1}{2}$	16 $\frac{1}{2}$	17	17	17 $\frac{1}{2}$	17 $\frac{1}{2}$	18	18	18 $\frac{1}{2}$	18 $\frac{1}{2}$	19
Thigh.....	13 $\frac{3}{4}$	14 $\frac{1}{4}$	14 $\frac{3}{4}$	15 $\frac{1}{4}$	15 $\frac{3}{4}$	16 $\frac{1}{4}$	16 $\frac{3}{4}$	17 $\frac{1}{4}$	17 $\frac{3}{4}$	18 $\frac{1}{4}$	18 $\frac{3}{4}$	19 $\frac{1}{4}$
Waist, elastic all around.....	24	26	28	30	32	34	36	38	40	42	44	46
Leg width.....	11 $\frac{1}{2}$	12	12 $\frac{1}{2}$	13	13 $\frac{1}{2}$	14	14 $\frac{1}{2}$	15	15 $\frac{1}{2}$	16	16 $\frac{1}{2}$	17
Front rise.....	12 $\frac{1}{2}$	13	13 $\frac{1}{2}$	14	14	14 $\frac{1}{2}$	15	15 $\frac{1}{2}$	16	16 $\frac{1}{2}$	17	17 $\frac{1}{2}$
Back rise.....	18	18 $\frac{1}{2}$	18 $\frac{1}{2}$	19	19	20	20	21	21	22	22	22
Width across inseam.....	11	11	11	11	11	11	11	11	11	11	11	11
Width across seat.....	21	22	23	24	25	26	27	28	29	30	31	32
Front opening <sup>1</sup> .....	9 $\frac{1}{4}$	9 $\frac{3}{4}$	9 $\frac{3}{4}$	10 $\frac{1}{4}$	10 $\frac{1}{4}$	10 $\frac{3}{4}$	10 $\frac{3}{4}$	11 $\frac{1}{4}$	11 $\frac{1}{4}$	11 $\frac{3}{4}$	11 $\frac{3}{4}$	12 $\frac{1}{4}$

<sup>1</sup> Given as a guide only, not as a standard.

## 6. IDENTIFICATION

6.1 In order to assure the consumer that he is receiving garments which comply with standard minimum measurements, it is recommended that men's and boys' shorts manufactured to conform to such standard measurements be identified by a sticker, tag, or other label attached to the garment carrying the following statement:

This garment has been made to measurements which (with proper allowance for shrinkage) are in accordance with Commercial Standard CS137-51, as developed by industry and the trade, under the procedure of the Commodity Standards Division, and issued by the U. S. Department of Commerce.

Or, more briefly—

Size (with proper allowance for shrinkage) conforms to CS137-51, as developed by industry and the trade and issued by the U. S. Department of Commerce.

## 7. EFFECTIVE DATE

7.1 Having been passed through the regular procedure of the Commodity Standards Division, and approved by the acceptors hereinafter listed, this commercial standard was issued by the United States Department of Commerce, effective from March 2, 1951.

EDWIN W. ELY,  
*Chief, Commodity Standards Division.*

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## HISTORY OF PROJECT

In the latter part of 1933 and early in 1934, the Underwear Institute adopted the report of C. H. Hamlin, its research associate at the National Bureau of Standards, covering size measurements for men's and boys' shorts made from woven fabrics. For purposes of expediency in connection with the Code of Fair Competition of the Underwear and Allied Products Manufacturing Industry, these data were suspended until September 5, 1935. Later they were made available in "Standard Sizes of Knit Underwear" issued by the Underwear Institute.

On November 27, 1942, the Office of Price Administration requested the cooperation of the National Bureau of Standards in the establishment of a commercial standard for men's and boys' shorts made from woven fabrics.

In order to determine the current status of the measurements included in "Standard Sizes of Knit Underwear," the Underwear Institute, in cooperation with the Division of Trade Standards (now Commodity Standards Division) checked with representative members of the industry. The comment received indicated that the industry as a whole was still favorable to the measurements covered in Mr. Hamlin's report of 1933 and 1934.

Accordingly, agreeable to the request of the Underwear Institute a proposed commercial standard on size measurements for men's and boys' shorts (woven fabrics) was developed and copies sent to representatives of all concerned, including manufacturers, distributors, and consumers, for additional comment and recommendations. In the light of comment received, and with the unqualified endorsement of a number of interested organizations, no public hearing was believed necessary.

The recommended commercial standard on size measurements for men's and boys' shorts (woven fabrics) was submitted to the entire trade for written acceptance on March 22, 1946. Having received acceptances in writing estimated to represent a satisfactory majority, announcement was issued on October 30, 1946, that the standard, designated CS137-46, would become effective for new production from December 30, 1946.

### First Revision

On March 17, 1949, the Underwear Institute requested that the standard be revised to include men's and boys' boxer shorts. The standing committee endorsed the proposal, which was circulated to manufacturers, distributors, and consumers for written acceptance.

The completion of the revision was announced on January 2, 1951, and Commercial Standard 137-51 (second edition) became effective for new production from March 2, 1951.

Project Manager: L. R. Gilbert, Commodity Standards Division, Office of Industry and Commerce.

Technical Adviser: R. S. Cleveland, Organic and Fibrous Materials Division, National Bureau of Standards.

### STANDING COMMITTEE

The following individuals comprise the membership of the standing committee, which is to review, prior to circulation for acceptance, revisions proposed to keep the standard abreast of progress. Each organization nominated its own representative. Comment concerning the standard and suggestions for revision may be addressed to any member of the committee or to the Commodity Standards Division, Office of Industry and Commerce, United States Department of Commerce, which acts as secretary for the committee.

ROY A. CHENEY, Underwear Institute, 2 Park Avenue, New York, N. Y. (chairman).

P. HUBERT HANES, P. H. Hanes Knitting Co., Winston-Salem, N. C.

B. ALLEN MAGEE, The B. V. D. Co., Empire State Building, New York, N. Y.

SOL LEVY, Hansley Mills, Barnesville, Ohio.

T. L. BLANKE, National Retail Dry Goods Association, 100 West Thirty-first Street, New York, N. Y.

LEE K. POND, 1061 West Thirty-fifth Street, Chicago 9, Ill. (representing Mail Order Association of America).

GEORGE BLOUNT, Woodward & Lothrop, Eleventh & F Streets NW., Washington, D. C.

PRESTON B. BERGIN, American Retail Federation, 1627 K Street NW., Washington, D. C.

MRS. MARGARET H. KINGSBURY, U. S. Department of the Interior, Washington, D. C.

MRS. CHARLOTTE PAYNE, National Council of Women of the United States, 501 Madison Avenue, New York, N. Y.

MRS. E. H. DANIEL, Broad Branch and Grant Roads NW., Washington, D. C. (representing General Federation of Women's Clubs).

MRS. CLARA THROPP, Professional Woman's League, Inc., 417 East Eighty-fifth Street, New York, N. Y.



**ACCEPTANCE OF COMMERCIAL STANDARD**

If acceptance has not previously been filed, this sheet properly filled in, signed, and returned will provide for the recording of your organization as an acceptor of this commercial standard.

Date .....

Commodity Standards Division,  
Office of Industry and Commerce,  
U. S. Department of Commerce,  
Washington 25, D. C.

Gentlemen:

We believe that the Commercial Standard 137-51 constitutes a useful standard of practice, and we individually plan to utilize it as far as practicable in the

production<sup>1</sup>      distribution<sup>1</sup>      purchase<sup>1</sup>      testing<sup>1</sup>  
of men's and boys' shorts (made from woven fabrics).

We reserve the right to depart from it as we deem advisable.

We understand, of course, that only those articles which actually comply with the standard in all respects can be identified or labeled as conforming thereto.

Signature of authorized officer.....  
(In ink)

(Kindly typewrite or print the following lines)

Name and title of above officer.....

Organization.....  
(Fill in exactly as it should be listed)

Street address.....

City, zone, and State.....

<sup>1</sup> Underscore which one. Please see that separate acceptances are filed for all subsidiary companies and affiliates which should be listed separately as acceptors. In the case of related interests, trade associations, trade papers, etc., desiring to record their general support, the words "General Support" should be added after the signature.

## TO THE ACCEPTOR

The following statements answer the usual questions arising in connection with the acceptance and its significance:

1. *Enforcement.*—Commercial standards are commodity specifications voluntarily established by mutual consent of those concerned. They present a common basis of understanding between the producer, distributor, and consumer and should not be confused with any plan of governmental regulation or control. The United States Department of Commerce has no regulatory power in the enforcement of their provisions, but since they represent the will of the interested groups as a whole, their provisions through usage soon become established as trade customs, and are made effective through incorporation into sales contracts by means of labels, invoices and the like.

2. *The acceptor's responsibility.*—The purpose of commercial standards is to establish, for specific commodities, nationally recognized grades or consumer criteria, and the benefits therefrom will be measurable in direct proportion to their general recognition and actual use. Instances will occur when it may be necessary to deviate from the standard and the signing of an acceptance does not preclude such departures; however, such signature indicates an intention to follow the commercial standard, where practicable, in the production, distribution, or consumption of the article in question.

3. *The Department's responsibility.*—The major function performed by the Department of Commerce in the voluntary establishment of commercial standards on a Nation-wide basis is fourfold: first, to act as an unbiased coordinator to bring all interested parties together for the mutually satisfactory adjustment of trade standards; second, to supply such assistance and advice as past experience with similar programs may suggest; third, to canvass and record the extent of acceptance and adherence to the standard on the part of producers, distributors, and users; and fourth, after acceptance, to publish and promulgate the standard for the information and guidance of buyers and sellers of the commodity.

4. *Announcement and promulgation.*—When the standard has been endorsed by a satisfactory majority of production or consumption in the absence of active, valid opposition, the success of the project is announced. If, however, in the opinion of the standing committee or of the Department of Commerce the support of any standard is inadequate, the right is reserved to withhold promulgation and publication.

## ACCEPTORS

The organizations and individuals listed below have individually accepted this standard for use as far as practicable in the production, distribution, purchase, or testing of men's and boys' shorts. In accepting the standard they reserved the right to depart therefrom as they individually deem advisable. It is expected that articles which actually comply with the requirements of this standard in all respects will be regularly identified or labeled as conforming thereto, and that purchasers will require such specific evidence of conformity.

### ASSOCIATIONS

#### (General Support)

General Federation of Women's Clubs, Washington, D. C.  
Mall Order Association of America, Chicago, Ill.  
National Association of Retail Clothiers & Furnishers, Washington, D. C.  
National Council of Women of the U. S., Inc., New York, N. Y.

### FIRMS AND OTHER INTERESTS

Ainsbrooke, Inc., Dothan, Ala.  
Allee Manufacturing Co., Fort Worth, Tex.  
Allied Purchasing Corp., New York, N. Y.  
American Manufacturing Corp., Inc., New Orleans, La.  
Arkwright, Inc., New York, N. Y.  
Askin Bros. Co., Inc., Baltimore, Md.  
Atlas Underwear Co., The, Richmond, Ind.  
Avery, Thomas W., Clifton, N. J.  
B. V. D. Co., Inc., Baltimore, Md.  
B. V. D. Co., Inc., New York, N. Y.  
Ball & Giles, Inc., Troy, N. Y.  
Ball Stores, Inc., Muncie, Ind.  
Bartel, Adam H., Co., Richmond, Ind.  
Bean, C. W., & Son, Pacolet, S. C.  
Beltex Manufacturing Co., New York, N. Y.  
Berkey Co., Philadelphia, Pa.  
Biltmore Sport Co., New York, N. Y.  
Bisom Co., Inc., New York, N. Y.  
Bittner-Hunsicker & Co., Allentown, Pa.  
Block, William H., Co., The, Indianapolis, Ind.  
Brager-Eisenberg, Inc., Baltimore, Md.  
Brown Durrell Co., Cambridge, Mass.  
Bry Block Mercantile Corp., Memphis, Tenn.  
Burney, H. S., & Co., Schenectady, N. Y.  
Bush & Bull Corp., Bethlehem, Pa.  
Butler Bros., Chicago, Ill.  
Carolina Underwear Co., Inc., Thomasville, N. C.  
Coopers, Inc., Kenosha, Wis.  
Coppin, John R., Co., Inc., Covington, Ky.  
Creery Shirt Shop, Inc., Richmond, Va.  
Croyden Shirt Co., Inc., New York, N. Y.  
Dannenberg Co., The, Macon, Ga.  
Derby Underwear Co., Bowling Green, Ky.  
Desmond's, Los Angeles, Calif.  
Diamond Department Store, The, Charleston, W. Va.  
District of Columbia, Government of the, Washington, D. C.  
Eagle, S., & Sons, Selma, Ala.  
Earl Shirt Corp., The, New York, N. Y.  
Elder Manufacturing Co., St. Louis, Mo.  
Elkins 5-10-25¢ Stores, Yookum, Tex.  
Emery Bird Thayer Co., Kansas City, Mo.  
Erlanger Dry Goods Co., Canton, Ohio.  
Fair, The, Chicago, Ill.  
Fandel Co., St. Cloud, Minn.  
Fuller Shirt Co., Inc., The, Kingston, N. Y.  
Fuller Uniform Co., Dallas, Tex.  
Garfinkel, Julius, & Co., Washington, D. C.  
Gertz, B., Inc., Jamaica, N. Y.  
Good Housekeeping Institute, New York, N. Y.  
Goodenow Textiles Co., Kansas City, Mo.  
Grace Manufacturing Co., Philadelphia, Pa.  
Grant, Gail G., Co., Painesville, Ohio.  
Grosner of Washington, Washington, D. C.  
Halle Bros. Co., The, Cleveland, Ohio.  
Hanes, P. H., Knitting Co., Winston-Salem, N. C.

Hansley Mills, Inc., Paris, Ky.  
Harvard Cooperative Society, Cambridge, Mass.  
Harwood Manufacturing Corp., New York, N. Y.  
Hatch Textile Research, New York, N. Y.  
Hecht Co., The, Washington, D. C.  
Henderson & Ervin, Charlottesville, Va.  
Hengerer, William, Co., Buffalo, N. Y.  
Higginbotham-Balley Co., Dallas, Tex.  
Hills, McLean & Haskins, Inc., Binghamton, N. Y.  
Howland Dry Goods Co., The, Bridgeport, Conn.  
Hunter Bros. Co., Inc., Statesville, N. C.  
Industrial By-Products & Research Co., Philadelphia, Pa.  
Interstate Department Stores, New York, N. Y.  
Ives Upham & Rand Co., The, Meriden, Conn.  
Johnston & Larimer, Inc., Wichita, Kans.  
Kann, S., Sons Co., Washington, D. C.  
Kaynee Co., The, Cleveland, Ohio.  
Klein-Norton Co., Los Angeles, Calif.  
Knothe Bros. Co., Inc., New York, N. Y.  
Krupa, John, Jr., Little Falls, N. Y.  
Kugelmann's, Woodsville, N. H.  
Laubach, William, & Sons Department Store, Easton, Pa.  
Lincoln Stores, Inc., Quincy, Mass.  
Lipman, Wolfe & Co., Portland, Oreg.  
Lit Bros., Philadelphia, Pa.  
Luxuray, Inc., New York, N. Y.  
Mabley & Carew Co., Cincinnati, Ohio.  
Macy, R. H., & Co., Inc., New York, N. Y.  
Malley, Edward Co., The, New Haven, Conn.  
Manhattan Shirt Co., The, Paterson, N. J.  
Mansmann, Albert J., Co., Pittsburgh, Pa.  
Marston Co., The, San Diego, Calif.  
Massachusetts State Prison Industries Office, Charlestown, Mass.  
Massachusetts, University of, University Store, Amherst, Mass.  
May Co., The, Denver, Colo.  
McCreery, James, & Co., New York, N. Y.  
Merkel Co., The, Atlantic City, N. J.  
Miller & Peck Co., Waterbury, Conn.  
Minnesota, University of, School of Home Economics, St. Paul, Minn.  
Missouri, University of, Columbia, Mo.  
Munsingwear, Inc., Minneapolis, Minn.  
Murphy, G. C., Co., McKeesport, Pa.  
Muzzy Bros. Co., Inc., The, Bristol, Conn.  
Myers Bros., Springfield, Ill.  
Myrna Mills, Inc., Mineral, Va.  
Namm's, Inc., Brooklyn, N. Y.  
Nantex Manufacturing Co., Inc., New York, N. Y.  
Natelson, M., Inc., New York, N. Y.  
New Jersey, Department Institutions and Agencies, Trenton, N. J.  
New Yorker Manufacturing Co., New York, N. Y.  
Nirenberg, M., & Sons, Inc., New York, N. Y.  
Outlet Co., Providence, R. I.  
Phoenix Mills, New York, N. Y.  
Pioneer Manufacturing Co., Wilkes-Barre, Pa.  
Pomeroy's, Inc., Reading, Pa.  
Prior, George W., Co., Denver, Colo.  
Raleigh Haberdasher, Washington, D. C.  
Reis, Robert, & Co., New York, N. Y.  
Rhodes Bros., Tacoma, Wash.  
Rice-Stix, Inc., St. Louis, Mo.  
Riverside Shirt & Underwear Corp., New York, N. Y.  
Rivoli Mills, Chattanooga, Tenn.  
Robinson Manufacturing Co., Inc., Dayton, Tenn.  
Royal Manufacturing Co., Inc., Allentown, Pa.  
S. Q. R. Store, The, Anaheim, Calif.



Saluda Corp., New York, N. Y.  
 Sevea Speare Co., The, Haverhill, Mass.  
 Shear's Department Store, Evansville, Ind.  
 Schudson, Charles, Inc., Milwaukee, Wis.  
 Schwartz Department Store, Anaconda, Mont.  
 Seegull Manufacturing Co., Philadelphia, Pa.  
 Sheffield Undergarment Corp., New York, N. Y.  
 Slumberland Nightwear Co., New York, N. Y.  
 Smith, Timothy, Co., Boston, Mass.  
 Standard's Knitting Mills, Inc., Knoxville, Tenn.  
 Stearns, R. H., Co., Boston, Mass.  
 Sterling Stores Co., Inc., Little Rock, Ark.  
 Stockton Dry Goods Co., Stockton, Calif.  
 Stone Manufacturing Co., Greenville, S. C.  
 Strawbridge & Clothier, Philadelphia, Pa.  
 Superior Co., Inc., Piqua, Ohio; New York, N. Y.  
 Textile Testing & Research Laboratories, New York, N. Y.  
 Topkis Bros. Co., Wilmington, Del.  
 Trichon, Morris, Co., Philadelphia, Pa.  
 Tyson Shirt Co., Norristown, Pa.  
 Union Co., The, Columbus, Ohio.  
 Union Underwear Co., Inc., New York, N. Y.  
 Utica Knitting Co., Utica, N. Y.

Varsity Pajamas, New York, N. Y.  
 Varnit, New York, N. Y.  
 Wasson, H. P., & Co., Indianapolis, Ind.  
 Wickbury, Ltd., Baldwin, L. I., N. Y.  
 Wilderman's Boys Shop, Tampa, Fla.  
 Wiley Dry Goods Co., The, Hutchinson, Kans.  
 Wilson Bros., Chicago, Ill.  
 Wise Smith Co., Inc., Hartford, Conn.  
 Wolf & Dessauer, Fort Wayne, Ind.  
 Woodward & Lothrop, Washington, D. C.  
 Wright-Metzler Co., Uniontown, Pa.  
 Younker-Davidson's, Sioux City, Iowa.  
 Ziesel Bros. Co., Elkhart, Ind.

#### UNITED STATES GOVERNMENT

Agriculture, U. S. Department of, Division of Purchase, Sales and Traffic, Washington, D. C.  
 Army, Department of, the Office of Assistant Chief of Staff, Standards Branch, Washington, D. C.  
 National Production Authority, U. S. Department of Commerce, Washington, D. C.  
 Interior, U. S. Department of, Bureau of Indian Affairs, Washington, D. C.

### COMMERCIAL STANDARDS

#### CS No.

- 0-40. Commercial standards and their value to business.
- 1-42. Clinical thermometers.
- 2-30. Mopsticks.
- 3-40. Stoddard solvent.
- 4-29. Staple porcelain (all-clay) plumbing fixtures.
- 5-46. Pipe nipples; brass, copper, steel and wrought-iron.
- 6-31. Wrought-iron pipe nipples. Superseded by CS5-46.
- 7-29. Standard weight malleable iron or steel screwed unions.
- 8-41. Gage blanks.
- 9-33. Builders' template hardware.
- 10-29. Brass pipe nipples. Superseded by CS5-46.
- 11-41. Moisture regains of cotton yarns.
- 12-48. Fuel oils.
- 13-44. Dress patterns.
- 14-51. Men's sport and dress shirt (woven fabrics) size measurements.
- 15-46. Men's pajama sizes (made from woven fabrics).
- 16-29. Wallpaper.
- 17-47. Diamond core drill fittings.
- 18-29. Hickory golf shafts.
- 19-32. Foundry patterns of wood.
- 20-49. Vitreous china plumbing fixtures.
- 21-39. Interchangeable ground-glass joints, stopcocks, and stoppers.
- 22-40. Builders' hardware (nontemplate).
- 23-30. Feldspar.
- 24-43. Screw threads and tap-drill sizes.
- 25-30. Special screw threads. Superseded by CS24-43.
- 26-30. Aromatic red cedar closet lining.
- 27-36. Mirrors.
- 28-46. Cotton fabric tents, tarpaulins and covers.
- 29-31. Staple seats for water-closet bowls.
- 30-31. (Withdrawn.)
- 31-38. Wood shingles.
- 32-31. Cotton cloth for rubber and pyroxylin coating.
- 33-43. Knit underwear (exclusive of rayon).
- 34-31. Bag, case, and strap leather.
- 35-49. Hardwood plywood.
- 36-33. Fourdrinier wire cloth.
- 37-31. Steel bone plates and screws.
- 38-32. Hospital rubber sheeting.
- 39-37. (Withdrawn.)
- 40-32. Surgeons' rubber gloves.
- 41-32. Surgeons' latex gloves.
- 42-49. Structural fiber insulating board.
- 43-32. Grading of sulphonated oils.
- 44-32. Apple wraps.
- 45-48. Douglas fir plywood.
- 46-49. Hosiery lengths and sizes.
- 47-34. Marking of gold-filled and rolled-gold-plate articles other than watchcases.
- 48-40. Domestic burners for Pennsylvania anthracite (underfed type).
- 49-34. Chip board, laminated chip board, and miscellaneous boards for bookbinding purposes.

#### CS No.

- 50-34. Binders board for bookbinding and other purposes.
- 51-35. Marking articles made of silver in combination with gold.
- 52-35. Mohair pile fabrics (100-percent mohair plain velvet, 100-percent mohair plain frieze, and 50-percent mohair plain frieze).
- 53-33. Colors and finishes for cast stone.
- 54-35. Mattresses for hospitals.
- 55-35. Mattresses for institutions.
- 56-49. Oak flooring.
- 57-40. Book cloths, buckrams, and impregnated fabrics for bookbinding purposes except library bindings.
- 58-36. Woven elastic fabrics for use in overalls (overall elastic webbing).
- 59-44. Textiles—testing and reporting.
- 60-48. Hardwood dimension lumber.
- 61-37. Wood-slat venetian blinds.
- 62-38. Colors for kitchen accessories.
- 63-38. Colors for bathroom accessories.
- 64-37. Walnut veneers.
- 65-43. Methods of analysis and of reporting fiber composition of textile products.
- 66-38. Marking of articles made wholly or in part of platinum.
- 67-38. Marking articles made of karat gold.
- 68-38. Liquid hypochlorite disinfectant, deodorant, and germicide.
- 69-38. Pine oil disinfectant.
- 70-41. Phenolic disinfectant (emulsifying type) (published with CS71-41).
- 71-41. Phenolic disinfectant (soluble type) (published with CS70-41).
- 72-38. Household insecticide (liquid spray type).
- 73-48. Old growth Douglas fir, Sitka spruce, and Western hemlock standard stock doors.
- 74-39. Solid hardwood wall paneling.
- 75-42. Automatic mechanical draft oil burners designed for domestic installations.
- 76-39. Hardwood interior trim and molding.
- 77-48. Enameled cast-iron plumbing fixtures.
- 78-40. Ground-and-polished lenses for sun glasses (published with CS79-40).
- 79-40. Blown, drawn, and dropped lenses for sun glasses (published with CS78-40).
- 80-41. Electric direction signal systems other than semaphore type for commercial and other vehicles subject to special motor vehicle laws (after market).
- 81-41. Adverse-weather lamps for vehicles (after market).
- 82-41. Inner-controlled spotlamps for vehicles (after market).
- 83-41. Clearance, marker, and identification lamps for vehicles (after market).
- 84-41. Electric tail lamp s for vehicles (after market).
- 85-41. Electric license-plate lamps for vehicles (after market).
- 86-41. Electric stop lamps for vehicles (after market).
- 87-41. Red electric warning lanterns.
- 88-41. Liquid burning flares.



CS No.  
89-40. Hardwood stair treads and risers.  
90-49. Power cranes and shovels.  
91-41. Factory-fitted Douglas fir entrance doors.  
92-41. Cedar, cypress, and redwood tank stock lumber.  
93-50. Portable electric drills (exclusive of high frequency).  
94-41. Calking lead.  
95-41. Lead pipe.  
96-41. Lead traps and bends.  
97-42. Electric supplementary driving and passing lamps for vehicles (after market).  
98-42. Artists' oil paints.  
99-42. Gas floor furnaces—gravity circulating type.  
100-47. Porcelain-enameled steel utensils.  
101-43. Flue-connected oil-burning space heaters equipped with vaporizing pot-type burners.  
102- . (Reserved for "Diesel and fuel-oil engines.")  
103-48. Rayon jacquard velour (with or without other decorative yarn).  
104-49. Warm-air furnaces equipped with vaporizing-type oil burners.  
105-48. Mineral wool insulation for low temperatures.  
106-44. Boys' pajama sizes (woven fabrics).  
107-45. (Withdrawn.)  
108-43. Treading automobile and truck tires.  
109-44. Solid-fuel-burning forced-air furnaces.  
110-43. Tire repairs—vulcanized (passenger, truck, and bus tires).  
111-43. Earthenware (vitreous-glazed) plumbing fixtures.  
112-43. Homogeneous fiber wallboard.  
113-51. Oil-burning floor furnaces equipped with vaporizing pot-type burners.  
114-43. Hospital sheeting for mattress protection.  
115-44. Porcelain-enameled tanks for domestic use.  
116-44. Bituminized-fibre drain and sewer pipe.  
117-49. Mineral wool insulation for heated industrial equipment.  
118-44. Marking of jewelry and novelties of silver.  
(E) 119-45.<sup>1</sup> Dial indicators (for linear measurements).  
120-48. Standard stock ponderosa pine doors.  
121-45. Women's slip sizes (woven fabrics).  
122-49. Western softwood plywood.  
123-49. Grading of diamond powder.  
(E) 124-45.<sup>1</sup> Master disks.  
125-47. Prefabricated homes.  
126-45. Tank-mounted air compressors.  
127-45. Self-contained mechanically refrigerated drinking water coolers.  
128-49. Men's sport shirt sizes—woven fabrics (other than those marked with regular neckband sizes).  
129-47. Materials for safety wearing apparel.  
130-46. Color materials for art education in schools.  
131-46. Industrial mineral wool products, all types—testing and reporting.  
132-46. Hardware cloth.  
133-46. Woven wire netting.

CS No.  
134-46. Cast aluminum cooking utensils (metal composition).  
135-46. Men's shirt sizes (exclusive of work shirts).  
136-46. Blankets for hospitals (wool, and wool and cotton).  
137-51. Size measurements for men's and boys' shirts (woven fabrics).  
138-49. Insect wire screening.  
139-47. Work gloves.  
140-47. Testing and rating convectors.  
141-47. Sine bars, blocks, plates, and fixtures.  
142-47. Automotive lifts.  
143-47. Standard strength and extra strength perforated clay pipe.  
144-47. Formed metal porcelain enameled sanitary ware.  
145-47. Testing and rating hand-fired hot-water supply boilers.  
146-47. Gowns for hospital patients.  
147-47. Colors for molded urea plastics.  
148-50. Men's circular flat- and rib-knit rayon underwear.  
149-48. Utility type house dress sizes.  
150-48. Hot rolled rail steel bars (produced from tee-section rails).  
151-48. Body measurements for the sizing of apparel for infants, babies, toddlers, and children (for the knit underwear industry).  
152-48. Copper naphthenate wood-preserved (spray, brush, dip application).  
153-48. Body measurements for the sizing of apparel for girls (for the knit underwear industry).  
154- . (Reserved for "Wire rope.")  
155-50. Body measurements for the sizing of boys' apparel (knit underwear, shirts, trousers).  
156-49. Colors for polystyrene plastics.  
157-49. Ponderosa pine and sugar pine plywood.  
158-49. Model forms for girls' apparel.  
159-49. Sun glass lenses made of ground and polished plate glass, thereafter thermally curved.  
160-49. Wood-fiber blanket insulation (for building construction).  
161-49. "Standard grade" hot-dipped galvanized ware (coated after fabrication).  
162-49. Tufted bedspreads.  
163-49. Standard stock ponderosa pine windows, sash and screens.  
164- . (Reserved for "Concrete mixers.")  
165-50. Zinc naphthenate wood-preserved (spray, brush, dip application).  
166-50. Size measurements for men's work trousers.  
167-50. Automotive and general service copper tube.  
168-50. Polystyrene plastic wall tiles, and adhesives for their application.  
169-50. Galvanized ware fabricated from *pregalvanized* steel sheets.  
170-50. Cotton flour-bag (sack) towels.  
171-50. Hardwood veneered doors.  
172-50. Brass trim for water-closet bowls, tanks, and urinals (dimensional standards).  
173-50. Heavy-duty alpha-cellulose-filled melamine tableware.

NOTICE.—Those interested in commercial standards with a view toward accepting them as a basis of everyday practice may secure copies of the above standards, while the supply lasts, by addressing the Commodity Standards Division, Office of Industry and Commerce, U. S. Department of Commerce, Washington 25, D. C.

<sup>1</sup> Where "(E)" precedes the CS number, it indicates an emergency commercial standard, drafted under war conditions with a view toward early revision.

## SIMPLIFIED PRACTICE RECOMMENDATIONS

No.	Item	No.	Item
1.	Vitrified paving brick.	65.	Packaging of overhead electric railway material.
2.	Bedsteads, springs, and mattresses.	66.	Automobile brake lining.
3.	Metal lath.	67.	Taper roller bearings.
4.	Asphalt.	68.	Metal and nonconducting flashlight cases.
5.	Hotel chinaware.	69.	Packaging of razor blades.
6.	Files and rasps (American pattern).	70.	Salt packages.
7.	Rough- and smooth-face brick; common brick.	71.	Turnbuckles.
8.	Ferrous range boilers, expansion tanks, and solar tanks.	72.	Solid-section steel windows.
9.	Galvanized woven-wire fencing and barbed wire.	73.	One-piece porcelain insulators.
10.	Milk and cream bottles.	74.	Hospital and institutional cotton textiles.
11.	Bed blanket sizes.	75.	Composition blackboard.
12.	Hollow building tile.	76.	Ash handles.
13.	Structural slate.	77.	Hickory handles.
14.	Roofing slate.	78.	Iron and steel roofing, siding, and ridge roll.
15.	Blackboard slate.	79.	Malleable foundry refractories.
16.	Lumber.	80.	Folding and portable wooden chairs.
17.	Heavy forged hand tools.	81.	Binder's beard.
18.	Builders' hardware (nontemplate). (Included in Commercial Standard 22-40.)	82.	Hollow metal doors.
19.	Asbestos paper and asbestos millboard.	83.	Kalamein doors.
20.	Steel barrels and drums.	84.	Composition books.
21.	Lavatory and sink traps.	85.	Adhesive plaster.
22.	Paper.	86.	Surgical gauze.
23.	Plow bolts.	87.	Forms for concrete joist construction floors.
24.	Hospital beds.	88.	Floor sweeps.
25.	Hot-water storage tanks.	89.	Coated abrasive products.
26.	Steel reinforcing bars.	90.	Hacksaw blades.
27.	Cotton duck.	91.	Glass containers for preserves, jellies, and apple butter.
28.	Sheet steel.	92.	Hard fiber twine and lath yarn (ply and yarn goods).
29.	Eaves trough and conductor pipe.	93.	Paper shipping tags.
30.	Roofing ternes.	94.	Open-web steel joists.
31.	Loaded paper shot shells.	95.	Skid platforms.
32.	Concrete building units.	96.	Ice cake sizes.
33.	Cafeteria and restaurant chinaware.	97.	Bell-bottom screw jacks.
34.	Warehouse forms.	98.	Photographic paper.
35.	Steel lockers.	99.	Pocketknives.
36.	Milling cutters.	100.	Welded chain.
37.	Commercial forms (invoice, purchase order, and inquiry).	101.	Metal partitions for toilets and showers.
38.	Sand-lime brick.	102.	Granite curbstone.
39.	Dining-car chinaware.	103.	Industrial truck tires.
40.	Hospital chinaware.	104.	Packaging of flashlight batteries.
41.	Agricultural insecticides and fungicides (package sizes).	105.	Wheelbarrows.
42.	Grocers' paper bags.	106.	Hospital plumbing fixtures.
43.	Paint and varnish brushes.	107.	Glassine bags.
44.	Box-board thicknesses.	108.	Dental hypodermic needles.
45.	Grinding wheels.	109.	Refrigerator ice compartments.
46.	Tissue paper.	110.	Soft fiber (jute) twine.
47.	Cut tacks and small cut nails.	111.	Color for school furniture.
48.	Shovels, spades, and scoops.	112.	Elastic shoe goring.
49.	Sidewalk, floor, and roof lights.	113.	Restaurant guest checks.
50.	Bank checks, notes, drafts, and similar instruments.	114.	No. 1 kraft paper sealing tape.
51.	Chasers for self-opening and adjustable die heads.	115.	Full disk buffing wheels.
52.	Staple vitreous china plumbing fixtures. (Included in Commercial Standard 20-49.)	116.	Dental brush wheels.
53.	Steel reinforcing spirals.	117.	Packaging of dental plaster, investment, and artificial stone.
54.	Sterling silver flatware.	118.	Abrasive grain sizes.
55.	Tinware, galvanized and japanned ware.	119.	Fast-selvaie terry towels.
56.	Carbon brushes and brush shunts.	120.	Ice-cream-brick molds and cartons.
57.	Wrought-iron and wrought-steel pipe, valves, and fittings.	121.	Calimine brushes.
58.	Classification of iron and steel scrap.	122.	Wire insect screen cloth.
59.	Rotary-cut lumber stock for wire-bound boxes.	123.	Carbonated beverage bottles.
60.	Packaging of carriage, machine, and lag bolts.	124.	Polished cotton twine.
61.	Clay tiles for floors and walls.	125.	Waxed tissue paper.
62.	Metallic cartridges.	126.	Set-up boxes (for department and specialty store use).
63.	Metal spools (for annealing, handling, and shipping wire).	127.	Folding boxes (for department and specialty store use).
64.	One-pound folding boxes for coffee.	128.	Corrugated boxes (for department and specialty store use).
		129.	Notion and millinery paper bags (for department and specialty store use).
		130.	Dental lathe grinding wheels.

No.	Item	No.	Item
131.	Glass containers for mayonnaise and kindred products.	189.	Round and flat hardwood toothpicks (packaging and sizes).
132.	Ice-cream cups and cup caps.	190.	Stove pipe and accessories.
133.	Surgical dressings.	191.	School tables.
134.	Singletrees, doubletrees, and neckyokes.	192.	Crayons, chalks, and related art materials for school use (types, sizes, colors, and packaging).
135.	Wooden butter tubs.	193.	Packages for shortening, salad oil, and cooking oil.
136.	Flax and hemp twine.	194.	Cotton jersey cloth and tubing for work gloves.
137.	Dental cone-socket mirrors.	195.	Dental excavating burs.
138.	Dental rubber (base and veneering).	196.	Glass containers for green olives.
139.	Commercial laundry extractors.	197.	Glass containers for maraschino cherries.
140.	Commercial laundry flatwork ironers.	198.	Wire rope.
141.	Commercial laundry tumblers.	199.	Cloth window shades.
142.	Commercial laundry washers.	200.	Paper boxes for toiletries and cosmetics.
143.	Paper cones and tubes (for textile winding).	201.	Iron and steel pop safety valves.
144.	Paints, varnishes, and related products (colors and containers).	202.	Tank-mounted air compressors.
145.	Packaging of electric railway motor and controller parts.	203.	Containers and packages for household insecticides (liquid spray type).
146.	Corrugated and solid fiber boxes for canned fruits and vegetables.	204.	Bronze pop safety valves, and bronze, iron, and steel relief valves.
147.	Wire diameters for mineral aggregate production screens.	205.	Iron and steel relief valves for petroleum, chemical, and general industrial services.
148.	Glass containers for cottage cheese and sour cream.	206.	Swiss pattern files.
149.	Sieve (screen) sizes of canned peas.	207.	Pipes, ducts, and fittings for warm-air heating and air conditioning.
150.	Copper-wire nails.	208.	Fluid milk cans.
151.	(To be assigned.)	209.	Peanut butter packages and containers.
152.	Basic dimensions for cones for warp and knitting yarns, and hole sizes for bobbins for filling cop winders.	210.	Carbon-brush terminals (electric).
153.	Hole sizes for taper tubes for filling cop winders.	211.	Clay sewer pipe and fittings.
154.	Cupola refractories.	212.	Cast-brass solder-joint fittings.
155.	Cans for fruits and vegetables.	213.	Asphalt roll roofing, and asphalt- and tar-saturated-felt products.
156.	Extracted honey packages.	214.	Metal-cutting band saws (hard edge, flexible back).
157.	Steel firebox boilers and steel heating boilers.	215.	Luggage.
158.	Forged axes.	216.	Hot-rolled carbon steel structural shapes.
159.	Forged hammers.	217.	Copper water tube and copper and brass pipe.
160.	Forged hatchets.	218.	Paper tubes for packaging milk-bottle caps.
161.	Packaging of automotive (bus) engine parts.	219.	Automatic regulating valves.
162.	Packaging of air brake (electric railway) parts.	220.	Open-end and box wrenches.
163.	Coarse aggregates (crushed stone, gravel, and slag).	221.	Steel rivets.
164.	Tinned steel ice-cream cans.	222.	Hot-rolled carbon steel bars and bar-size shapes.
165.	Photographic film for miniature copies of records.	223.	Wire nails and staples.
166.	Color code for marking steel bars.	224.	Medical and surgical hypodermic needles (for hospital use).
167.	Counter, window, and radiator brushes.	225.	Asphalt tile.
168.	Braided shoe laces.	226.	Standard-grade galvanized ware.
169.	Bolts and nuts (stock-production sizes).	227.	Plumbing fixture fittings and trim for housing.
170.	Spice containers (tin and fiber).	228.	Pallets for handling groceries and packaged merchandise.
171.	Wooden boxes for canned fruits and vegetables.	229.	Vises (machinists' and related kinds).
172.	Stock folding boxes for garments and dry cleaning.	230.	Flat veneer products.
173.	Stock-folding boxes for millinery.	231.	Coffee grinds.
174.	Cast-iron radiators.	232.	Low-pressure lubricating devices.
175.	Heavy-duty, round, nesting, paper food and beverage containers and lids.	233.	Rotary files and burs.
176.	Color marking for anesthetic-gas cylinders.	234.	Welded-wire fabric reinforcement for concrete pipe.
177.	Single-faced corrugated-board rolls.	235.	Copper and copper-alloy round seamless tube.
178.	Packaging of first-aid unit dressings and treatments.	236.	Delivery cases for square glass milk bottles.
179.	Structural insulating board.	237.	Packaging, marking, and loading methods for steel products for commercial overseas shipments.
180.	Copper conductors for building purposes.	238.	Convectors.
181.	Nonferrous range boilers.	239.	Surgical sutures—nonboilable type (catgut, silk, nylon).
182.	Food service equipment.	240.	Clinical utensils (aluminum, enameled steel, and stainless steel).
183.	Brass or bronze valves (gate, globe, angle, and check).	241.	Copper and copper-alloy rod.
184.	Iron valves (gate, globe, angle, and check).	242.	Vinyl- and pyroxylin-coated cotton fabrics.
185.	Pipe fittings (gray cast iron, malleable iron, and brass or bronze).	243.	Unorificed radiator supply valves.
186.	Cotton canton flannels for work gloves.	244.	Low-pressure thermostatic radiator traps and float-and-thermostatic traps.
187.	Food trays or dishes (waxed paper, molded wood pulp, and wood types).		
188.	Spring and slotted clothespins (sizes and packaging).		



## U. S. DEPARTMENT OF COMMERCE

### Field Service

Albuquerque, N. Mex. 203 W. Gold Ave.	Memphis 3, Tenn. 229 Federal Bldg.
Atlanta 3, Ga. 50 Whitehall St. SW.	Miami 32, Fla. 36 NE. First St.
Baltimore 2, Md. 103 S. Gay St.	Milwaukee 2, Wis. 517 E. Wisconsin Ave.
Boston 9, Mass. 1800 Customhouse	Minneapolis 1, Minn. 401 Second Ave. South
Buffalo 3, N. Y. 117 Ellicott St.	Mobile 10, Ala. 109-13 St. Joseph St.
Butte, Mont. 14 W. Granite St.	New Orleans 12, La. 333 St. Charles Ave.
Charleston 3, S. C. 18 Broad St.	New York 4, N. Y. 42 Broadway
Cheyenne, Wyo. 206 Federal Office Bldg.	Oklahoma City 2, Okla. 102 NW. Third St.
Chicago 4, Ill. 332 S. Michigan Ave.	Omaha 2, Nebr. 1319 Farnam St.
Cincinnati 2, Ohio 105 W. Fourth St.	Philadelphia 7, Pa. 1015 Chestnut St.
Cleveland 14, Ohio 925 Euclid Ave.	Phoenix, Ariz. 234 N. Central Ave.
Dallas 2, Tex. 1114 Commerce St.	Pittsburgh 19, Pa. 700 Grant St.
Denver 2, Colo. 828 Seventeenth St.	Portland 4, Oreg. 520 SW. Morrison St.
Detroit 26, Mich. 230 W. Fort St.	Providence 3, R. I. 24 Weybossett St.
El Paso, Tex. 206 U. S. Courthouse Bldg.	Reno, Nev. 118 W. Second St.
Hartford 1, Conn. 135 High St.	Richmond 19, Va. 801 E. Broad St.
Houston 14, Tex. 602 Federal Office Bldg.	St. Louis 1, Mo. 1114 Market St.
Jacksonville 1, Fla. 311 W. Monroe St.	Salt Lake City 1, Utah 350 S. Main St.
Kansas City 6, Mo. 911 Walnut St.	San Francisco 11, Calif. 555 Battery St.
Los Angeles 12, Calif. 312 North Spring St.	Savannah, Ga. 125-29 Bull St.
Louisville 2, Ky. 631 Federal Bldg.	Seattle 4, Wash. 909 First Ave.

*For local telephone listing, consult section devoted  
to U. S. Government*