MEN'S CIRCULAR FLAT AND RIB KNIT RAYON UNDERWEAR

COMMERCIAL STANDARD CS148-48

Effective Date For New Production From July 27, 1948



A RECORDED VOLUNTARY STANDARD OF THE TRADE

UNITED STATES DEPARTMENT OF COMMERCE

CHARLES SAWYER, Secretary

COMMODITY STANDARDS

Simplified Practice Recommendations and Commercial Standards are developed by manufacturers, distributors, and users in cooperation with the Commodity Standards Division of 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 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 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 adjust-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.

COMMERCIAL STANDARD FOR MEN'S CIRCULAR FLAT AND RIB KNIT RAYON UNDERWEAR

On February 20, 1948, at the instance of the Underwear Institute a Recommended Commercial Standard for Men's Circular Flat and Rib Knit Rayon Underwear was presented to interested producers, distributors, testing laboratories and users for written acceptance. Those concerned have since accepted and approved the Commercial Standard as shown herein.

Project Manager: L. R. GILBERT, Commodity Standards Division, National Bureau of Standards.

Technical Adviser: W. D. APPEL, Organic & Fibrous Materials Division, National Bureau of Standards.

¹ Effective July 1, 1947, the Division of Simplified Practice, organized in 1921, and the Division of Trade Standards, organized in 1927, were combined to form the Commodity Standards Division. Since their organization, both of these Divisions have assisted many industries in the development of Simplified Practice Recommendations and Commercial Standards for a wide variety of commodities. A list of previously established Commercial Standards appears herein. A list of Simplified Practice Recommendations may be obtained from the Commodity Standards Division, National Bureau of Standards, Washington 25, D. C.

COMMERCIAL STANDARD CS148-48

for

MEN'S CIRCULAR FLAT AND RIB KNIT RAYON UNDERWEAR

PURPOSE

1. The purpose is to provide standard methods of measuring, standard measurements, and tolerances for the guidance of producers, distributors, and users, in order to eliminate confusion resulting from a diversity of measurements and methods and to provide a uniform basis for guaranteeing correct sizes.

SCOPE

2. The garments covered in this commercial standard are men's circular flat and rib knit rayon underwear. The standard also covers methods of measuring, measurements and tolerances, and includes a recommended label for guaranteeing conformity to the standard.

APPLICATION

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

GENERAL

4. Method of measuring.—The garment to be measured is laid out without tension on a smooth flat surface so that creases and wrinkles will not affect the measurements.

5. Accuracy.—Measurements are taken to the nearest 1/8 of an inch.

MEN'S RAYON KNIT TRACK PANTS

METHOD OF MEASURING

6. Waist.—Twice the distance between the outside edges of waist band. Twice W, figure 1.

7. Total length.—Measured from top outside edge of waist band to lower edge of leg. C, figure 1.

8. Width across seat.—Measured across back of garment halfway between bottom of crotch (D) and top edge of waist band. G, figure 1.

9. Leg opening.—Measured across leg at lower edge. J, figure 1.
10. Front rise.—Measured from bottom of crotch up front of garment to middle point of front edge of waist band. R, figure 1.

11. Back rise.—Measured from bottom of crotch up back of garment to middle point of back edge of waist band. S, figure 1.

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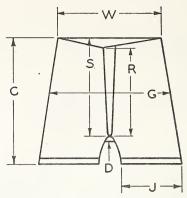


FIGURE 1. Men's rayon track pants.

Table 1. Standard measurements for men's rayon knit track pants

	Size (inches)												
Location	30	32	34	36	38	40	42	44	46	48	50	Toler- ances	
Waist: (W) Elastic band ————————————————————————————————————	$\begin{array}{c} 26 \\ 27 \\ 17 \\ 19 \\ 10\frac{1}{2} \\ 12\frac{1}{2} \\ 14\frac{1}{2} \end{array}$	$\begin{array}{c} 28 \\ 29 \\ 17^{1}/_{2} \\ 20 \\ 11 \\ 12^{3}/_{4} \\ 14^{3}/_{4} \end{array}$	30 31 18 21 11½ 13 15	32 33 $18\frac{1}{2}$ 22 12 $13\frac{1}{4}$ $15\frac{1}{4}$	34 35 19 23 $12\frac{1}{2}$ $13\frac{1}{2}$ $15\frac{1}{2}$		$ \begin{array}{c} 38 \\ 39 \\ 20 \\ 25 \\ 13\frac{1}{2} \\ 14 \\ 16 \end{array} $	40 41 20 26 14 14 ¹ ⁄ ₄ 16 ¹ ⁄ ₄	$\begin{array}{c} 42 \\ 43 \\ 21 \\ 26\frac{1}{2} \\ 14\frac{1}{2} \\ 14\frac{1}{2} \\ 16\frac{1}{2} \end{array}$	15 15	$\begin{array}{c} 46\\ 47\\ 22\\ 27^{1/2}\\ 15^{1/2}\\ 15^{1/2}\\ 17^{1/2} \end{array}$	$\pm \frac{3}{4}$ in.	

MEN'S RAYON KNIT ATHLETIC SHIRTS

(Pullover shirts, ribbed and flat knit)

METHOD OF MEASURING

12. Width of garment.—Measured across garment 1 inch below bottom of armholes. B, figure 2.

13. Total length.—Measured from center of shoulder strap to

bottom edge of shirt. C, figure 2.

14. $Armhole\ length$.—Measured from top point of armhole at shoulder along outer edge of armhole to lowest point under arm. A, figure 2.

15. Collarette length.—Measured from point where shoulder joins collarette around inner edge of collarette back to starting point.

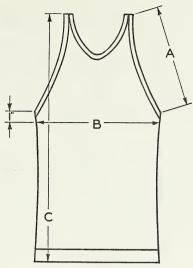


FIGURE 2. Men's athletic pullover shirt. (Low neck, no sleeves)

Table 2. Standard measurements for men's rayon knit athletic shirts (pullover shirts, ribbed and flat knit)

	Size (inches)												
Location	34	36	38	40	42	44	46	48	50	52	54	Toler- ances	
Width of garment: Rib knit	113/4 15 32 29 12	$12\frac{1}{2}$ 16 32 29 12	13½ 17 33 31 13	14 18 34 31 13	14 ³ ⁄ ₄ 19 35 33 14	$15\frac{1}{2}$ 20 35 33 14	161/4 21 35 33 15	17 22 36 34 15	17½ 23 36 34 16	18 24 37 35 16	18½ 25 37 35 16	$\pm 6\%$. $\pm 6\%$. ± 1 in. ± 1 in. ± 2 in.	

MEN'S RAYON KNITTED POLO SHIRTS

(U. I.-No. M-23)

METHOD OF MEASURING

16. Width of garment.—Measured across garment 1 inch below bottom of armholes. B, figure 3.

17. Total length.—Measured from point where shoulder joins collar

to bottom edge of shirt. C, figure 3.

18. Armhole length.—Measured from point where sleeve is attached

to shoulder to lowest point under arm. A, figure 3.

19. Sleeve length.—Measured from point where sleeve is attached

to shoulder to upper outside edge of sleeve cuff. E, figure 3. 20. Collar length.—Measured from center of collar button around neck band to end of buttonhole.

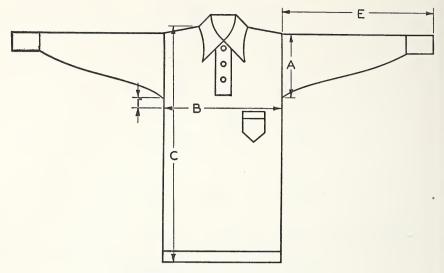


FIGURE 3. Men's polo shirt.

Table 3. Standard measurements for men's rayon knitted polo shirts

	Size (inches)												
Location	34	36	38	40	42	44	46	48	50	52	54	Toler- ances	
Width of garment (B) Total length (C) Armhole length (A) Sleeve length (E) Short sleeve Collar length	16 26 9 22 11 14	17 26 9 22 11 14½	18 27 9½ 22 22 11 15	19 28 9½ 23 12 15½	20 28 10 23 12 16	21 29 10 23 12 $16\frac{1}{2}$	$\begin{array}{c} 22\\ 30\\ 10\frac{1}{2}\\ 23\\ 12\\ 17 \end{array}$	23 30 10½ 24 13 17½	24 31 11 24 13 18	25 32 11 24 13 18½	26 32 11½ 24 13 19	$\pm 6\%$ ± 1 in.	

MEN'S RAYON FLAT KNIT ATHLETIC UNION SUITS

(No sleeves, button shoulder or button front, short leg)

METHOD OF MEASURING

21. Width of garment.—Measured across garment 1 inch below bottom of armholes. B, figure 4.

22. Total length.—Measured from center of shoulder strap to bottom edge of leg. C, figure 4.

23. Trunk.—Twice the distance from point where shoulder joins

collarette to center of bottom line of gusset at crotch. Spread legs in measuring only sufficiently to adjust crotch gusset. Twice T,

24. Armhole length.—Measured from top point of armhole at shoulder along outer edge of armhole to lowest point under arm.

A, figure 4.

25. Leg opening.—Measured across leg at lower edge. J, figure 4.

26. Collarette length.—Measured from point where shoulder joins collarette around inner edge of collarette back to starting point.

Table 4. Standard measurements for men's rayon flat knit athletic union suits

	Size (inches)												
Location	34	36	38	40	42	44	46	48	50	52	54	Toler- ances	
Width of garment: Button shoulder(B) Button front(B) Total length(C)	15 16 37	16 17 38	17 18 39	18 19 40	19 20 41	20 21 42	21 22 43	22 23 44	23 24 45	24 25 46	25 26 47	±6% ±6% ±1½ in. ±1½ in.	
Trunk (T) Armhole length (A) Leg opening (J) Collarette length:	60 12 9	$62 \\ 12 \\ 9\frac{1}{2}$	64 13 10	66 13 10½	68 14 11	70 14 11½	72 15 12	74 15 12½	76 16 13	78 16 13½	80 16 14	±2 in. ±2 in. ±6%	
Button shoulderButton front	26 20	26 20	27 21	27 21	28 21	28 22	28 22	29 22	29 23	29 23	29 23	±2 in. ±2 in.	

¹ Trunk and sport leg models according to style.

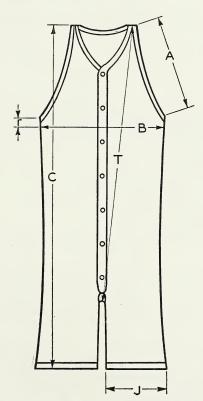


FIGURE 4. Men's athletic union suits. (No sleeves, button front, short leg)

MEN'S RAYON RIBBED KNIT ATHLETIC UNION SUITS

(No sleeves, button shoulder or button front, short leg)

METHOD OF MEASURING

27. Width of garment.—Measured across garment 1 inch below bottom of armholes. B, figure 4.

28. Total length.—Measured from top edge of shoulder strap to

bottom edge of leg. C, figure 4.

29. Trunk.—Twice the distance from point where shoulder joins collarette to center of bottom line of gusset at crotch. Spread legs in measuring only sufficiently to adjust crotch gusset. Twice T, figure 4.

30. Armhole length.—Measured from top point of armhole at shoulder along outer edge of armhole to lowest point under arm. A,

figure 4.

31. Leg opening.—Measured across leg at lower edge. J, figure 4. 32. Collarette length.—Measured from point where shoulder joins collarette around inner edge of collarette back to starting point.

Table 5.—Standard measurements for men's rayon ribbed knit athletic union suits (no sleeves, button shoulder or button front, short leg)

	Size (inches)												
Location	34	36	38	40	42	44	46	48	50	52	54	Toler- ances	
Width of garment: Button shoulder. (B) Button front. (B) Total length (C) Total length 1	12½ 13 37	13 13 ³ ⁄ ₄ 38	$13\frac{3}{4}$ $14\frac{1}{2}$ 39	$14\frac{1}{2}$ $15\frac{1}{4}$ 40	15 15 ³ ⁄ ₄ 41	15¾ 16½ 42	$16\frac{1}{2}$ $17\frac{1}{4}$ 43	17¼ 18 44	173/4 181/2 45	18½ 19 46	$18\frac{3}{4}$ $19\frac{1}{2}$ 47	±6% ±6% ±1½ in ±1½ in	
Trunk. (T) Armhole length (A) Leg opening (J) Collarette length:	60 12 6½	62 12 7	64 13 7½	66 13 8	68 14 8½	70 14 9	$72 \\ 15 \\ 9\frac{1}{2}$	74 15 10	76 16 $10\frac{1}{2}$	78 16 11	$ \begin{array}{c} 80 \\ 16 \\ 11\frac{1}{2} \end{array} $	± 2 in. ± 2 in.	
Button shoulderButton front	26 20	26 20	27 21	27 21	28 21	28 22	28 22	29 22	29 23	29 23	29 23	±2 in. ±2 in.	

¹ Trunk and sport leg models according to style.

RECOMMENDED METHOD OF WASHING RAYON KNIT UNDER-WEAR

33. Washing.—Use only good quality neutral soap preferably in powdered or chip form (not soap powder). Dissolve it first in hot water, soft if possible. Wash the garments in warm water taking care not to go over 140° F. If using a washing machine, use plenty of water and a thick cushion of suds. In most cases, 10 minutes will be sufficient time for washing. Avoid overloading the machine. If washing by hand, souse goods gently up and down in the bath until soap permeates the whole fabric. Do not rub. Use rubber gloves for this purpose as this is a delicate fabric and is weak in strength when wet, but regains its strength when dry. Take care not to pull or stretch the fabric when it is wet.

34. Rinsing.—Rinse in water of approximately the same temperature as that of the wash water to avoid sharp contrasts in temperature.

Five or six minutes will be usually sufficient. Handle garments

gently and wear rubber gloves.

35. Drying.—Do not use a roll type wringer for removing excess water. A centrifugal type is satisfactory if the machine is so equipped. Otherwise squeeze out excess water gently by hand. Do not twist. Finish drying by laying garment on a flat surface and dry at ordinary room temperature of 70° to 80° F. Do not hang the garment on a line or on the back of chairs. Keep away from excessive heat in drying. Use medium hot iron.

IDENTIFICATION

36. In order to assure the purchaser that he is receiving garments which comply with standard measurements, it is recommended that underwear for men 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 are in accordance with Commercial Standard CS148-48, as developed by industry and the trade, under the procedure of the National Bureau of Standards, and issued by the U.S. Department of Commerce.

Or more briefly

Size conforms to CS148–48, as developed by industry and the trade, and issued by the U. S. Department of Commerce.

EFFECTIVE DATE

37. 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 July 27, 1948.

Edwin W. Ely

Chief, Commodity Standards Division

HISTORY OF PROJECT

38. On October 30, 1947, the Underwear Institute requested the cooperation of the National Bureau of Standards in the establishment of a commercial standard for men's circular flat and rib-knit rayon underwear. The measurements and tolerances submitted for incorporation in the proposed standard were previously incorporated in the recommended commercial standard for circular flat and rib-knit rayon underwear, TS-2251, and had been in actual use in the production, distribution and use of men's rayon underwear for a sufficient number of years to justify the belief that they could now be classified as standard.

39. Following receipt of this request, copies of these measurements were sent to key manufacturers for a check on their present accuracy.

40. With the unqualified endorsement of the industry, the recommended commercial standard was submitted to the trade for written acceptance on February 20, 1948. Having received acceptances in writing estimated to represent a satisfactory majority, announcement was issued on May 27, 1948 that the standard would become effective for new production from July 27, 1948.

STANDING COMMITTEE

41. 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 Comment concerning the standard and suggestions for revisions may be addressed to any member of the committee or to the Commodity Standards Division, National Bureau of Standards, which acts as secretary for the committee.

R. A. SMITH (Chairman), Wilson Brothers, South Bend, Ind.

R. A. SMITH (Chairman), Wilson Brothers, South Bend, Ind.
Roy A. Cheney, Underwear Institute, 2 Park Avenue, New York, N. Y.
J. B. Kreider, Walter W. Moyer Company, Ephrata, Pa.
C. J. Rutishauser, Williams Brothers Manufacturing Co., Rome, N. Y.
E. V. Hunter, Quality Knitting Co., Stowe, Pa.
Donald C. McLeod, Munsingwear, Inc., Minneapolis, Minn.
Rodney W. Jones, Augusta Knitting Corporation, 180 Madison Avenue, New York, N. Y.
L. Lesavoy, Blossom Products Comparation, Allertany, Pa

I. L. LESAVOY, Blossom Products Corporation, Allentown, Pa.

1. L. Leeavoy, Blossom Froducts Corporation, Amentown, Fa.
A. F. Eckert, Duofold, Inc., Mohawk, N. Y.
T. L. Blanke, 100 West 31st Street, New York, N. Y. (Representing National Retail Dry Goods Association and American Retail Federation).
G. D. Grosner, Grosner of Washington, 1325 F Street, NW, Washington, D. C.
W. W. Everett, Jr., Woodward and Lothrop, Washington, D. C.
Dr. Ephraim Freedman, R. H. Macy & Co., New York, N. Y.
Louis Rothschild, National Association of Retail Clothiers and Furnishers, Washington Loan and Trust Building, Washington, D. C.
Hy Thron National Taytile Distributors Co. 320 Broadway, New York, N. Y. Hy Thron, National Textile Distributors Co., 320 Broadway, New York, N. Y.

(Representing Wholesale Dry Goods Institute.)
Mrs. Ernest H. Daniel, Broad Branch and Grant Roads, NW., Washington,

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

MRS. MARGARET H. KINGSBURY, United States Department of the Interior, Room 1106, 226 West Jackson Boulevard, Chicago, Ill.

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

MISS CLARA THROPP, Professional Women's League, 417 East 85th Street, New York, N. Y.

Mrs. Harold Benjamin, 3915 Calvert Drive, College Park, Md. (Representing American Association of University Women.)

as conforming thereto.

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, National Bureau of Standards, Washington 25, D. C.
Gentlemen:
We believe that the Commercial Standard CS148–48 constitutes a useful standard of practice, and we individually plan to utilize it as far as practicable in the
production ¹ distribution ¹ purchase ¹ testing ¹
of men's circular flat and rib knit rayon underwear.
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

(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_____

¹ 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, distri-

bution, 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 the Department of Commerce, the support of any standard is inadequate, the right is reserved to withhold promulgation and

publication.

ACCEPTORS

42. The organizations listed below have individually accepted this standard for use as far as practicable in the production, distribution, testing or use of men's circular flat and rib knit rayon underwear. In accepting the standard they reserved the right to depart from it 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)

Intermountain Consumer's Service, Inc., Denver, Colo. National Retail Dry Goods Association, New York, N. Y.

Underwear Institute, New York, N. Y.

FIRMS AND OTHER INTERESTS

Adam, Meldrum & Anderson Co., Inc., Buffalo, N.Y.
Allied Purchasing Corp., New York, N.Y.
Arkwright, Inc., New York, N.Y.
Arkwright, Inc., New York, N.Y.
Askin Brothers Co., Inc., Baltimore, Md.
Atlas Underwear Co., Richmond, Ind.
Atwood, J. J., Co., Upland, Calif.
Augusta Knitting Corp., New York, N.Y.
B & B Stores, Inc., Logansport, Ind.
Bailey Co., Cleveland, Ohio.
Bean, C. W., & Son, Pacolet, S. C.
Better Fabrics Testing Bureau, Inc., New York, N.Y.
Blossom Products Corp., Allentown, Pa.
Boggs & Buhl, Inc., Pittsburgh, Pa.
Boston Store, The, Manitowoc, Wis.
Brager's, Inc., Baltimore, Md.
Bush & Bull Corp., Bethlehem, Pa.
Butler Brothers, New York, N.Y.
Chalmers Knitting Co., Amsterdam, N.Y.
Continental Undergarment Co., Inc., Brooklyn, N.Y.
Deisroth's, P., Sons, Hazleton, Pa.
Desmond's, Los Angeles, Calif.
Donaldson, L. S., Co., Minneapolis, Minn.
Duofold, Inc., Mohawk, N.Y.
Eagle Stores Co., Charlotte, N. C.

Continental Undergarment Co., Inc., Brooklyn, N. Y.
N. Y.
Deisroth's, P., Sons, Hazleton, Pa.
Desmond's, Los Angeles, Calif.
Donaldson, L. S., Co., Minneapolis, Minn.
Duofold, Inc., Mohawk. N. Y.
Eagle Stores Co., Charlotte, N. C.
Eagle, S., & Sons, Selma, Ala.
Elder Manufacturing Co., St. Louis, Mo.
Fair, The, Chicago, Ill.
Field, Marshall, & Co., Chicago, Ill.
Foley's, Houston, Tex.
Fowler, Diek & Walker, Wilkes-Barre, Pa.
Globe Knitting Works, Grand Rapids, Mich.
Goodman, Al., Merchandising Corp., New York, N. Y.

N. Y.
Grosner of Washington, Washington, D. C.
Gugenheimer, C. M., Corp., Lynchburg, Va.
Halle Bros. Co., The, Cleveland, Ohio.
Hamilton Bros., Houston, Tex.
Hatch Textile Research, New York, N. Y.
Hengerer, Wm., Co., The, Buffalo, N. Y.
Holmes, D. H., Co., Ltd., New Orleans, La.
Hornik, M., & Co., Charleston, S. C.
Howland Dry Goods Co., The, Bridgeport, Conn.
Industrial By Products & Research Co., Philadelphia, Pa.

Industrial By Products of Research Co., 1 phia, Pa.
Ives, Upham & Rand Co., Meriden, Conn. Johnston & Larimer, Inc., Wichita, Kans. Kann, S., Sons Co., Washington, D. C. Kaufmann's, Pittsburgh, Pa. Keller's, Liberty, N. Y. Klein-Norton Co., Los Angeles, Calif.

ntified or labeled as conforming thereto, ecific evidence of conformity.

| Kugelman's, Woodsville, N. H. | Laurel Underwear Co., Potistown, Pa. | Lazarus, F. & R., & Co., Columbus, Ohio. | Levy Bros., Burlingame, Calif. | Lewiston Manufacturing Corp., Robbinsville, N. J. Luxuray, Inc., New York, N. Y. | Macy's Bureau of Standards, New York, N. Y. | Macy's Bureau of Standards, New York, N. Y. | Macy's, San Francisco, Calif. | May Co., The, Baltimore, Md., and Denver, Colo. | McKelvey, G. M., Co., Youngstown, Ohio. | Men's Wear Sales Corp., New York, N. Y. | Miller & Rhoads, Inc., Richmond, Va. | Missouri, University of, Columbia, Mo. | Moore, Harry C., Dry Goods Co., Nevada, Mo. | Moyer, Walter W., Co., Ephrata, Pa. | Munsingwear, Inc., Minneapolis, Minn. | Myer Brothers, Springfield, Ill. | National Shirt Shops, Inc., New York, N. Y. | New Boston Store Co. of Chicago, Chicago, Ill. | Ogden Utah Knitting Co., Inc., Ogden, Utah. | Pacific Department Store, Portland, Oreg. | Pennsylvania State College, The, State College, Pa. | Quality Knitting Co., Inc., Stowe, Pa. | Raleigh Haberdasher, Inc., Washington, D. C. | Rankin Dry Goods Co., Inc., Santa Ana, Calif. | Rich's, Inc., Atlanta, Ga. | Rike-Kumler Co., The, Dayton, Ohio. | Rodgers, Eugene, Inc. (formerly Tamro Products, Inc.), New York, N. Y. | Salt Lake Knitting Works, Salt Lake City, Utah. | Schear's Department Store, Evansville, Ind. | Schofield Corp., The, Philadelphia, Pa. | Schudson, Chas., Inc., Milwaukee, Wis. | Scranton Dry Goods Co., Scranton, Pa. | Shannon Mills, Inc., New Albany, Ind. | Shorewood Mills, Milwaukee, Wis. | Smith, Timothy, Co., Roxbury, Mass. | Smith, Timothy, Co., Roxbury, Mass. | Smith, Timothy, Co., Roxbury, Mass. | Smith, Timothy, Co., The, Bridgeport, Conn. | Snell, Foster D., Inc., New York, N. Y. | Strawbridge & Clothier, Philadelphia, Pa. | Swartz, W. G., Co., Inc., Norfolk, Va. | Textile Testing & Research Laboratories, New York, N. Y. | United States Testing Co., Inc., Hoboken, N. J. N. Y.
Textron, Inc., New York, N. Y.
United States Testing Co., Inc., Hoboken, N. J.
Utica Knitting Co., Utica, N. Y.
Wakefield Knitting Mills, Philadelphia, Pa.
Walser Manufacturing Co., Inc., Cliiton, N. J.
Wasson, H. P., & Co., Indianapolis, Ind.
Waterville Textile Mills, Waterville, N. Y.
Weinstein Co., Inc., San Francisco, Calif.
White, J. B., & Co., Augusta, Ga.
Williams Bros. Manufacturing Co., Rome, N. Y.
Wilson Brothers, Chicago, Ill., and South Bend, Ind.
Woodward & Lothrop, Washington, D. C.
Wright-Metzler Co., Uniontown, Pa.
Ziesel Brothers Store, Elkhart, Ind.

UNITED STATES GOVERNMENT

Agriculture, United States Department of, Division of Purchase, Sales, and Traffic, Washington, D. C. Interior, United States Department of the, Indian Service, Chicago, Ill.

COMMERCIAL STANDARDS

CS No. 0-40. Commercial standards and their value to business (third edition) 1_49 Clinical thermometers (third edition).

2-30. Monsticks.

3-40. Stoddard solvent (third edition).
4-29. Staple porcelain (all-clay) plumbing fixtures.
5-46. Pipe nipples; brass, copper, steel and wrought-iron (second edition).

6-31. Wrought-iron pipe nipples (second edition).
Superseded by CS5-46.
7-29. Standard weight malleable iron or steel

screwed unions.

8-41. Gage blanks (third edition).

9-33. Builders' template hardware (second edition). 10–29. Brass pipe nipples. Superseded by CS5–46. 11–41. Moisture regains of cotton yarns (second edition).

12-48: Fuel oils (sixth edition). 13-44. Dress patterns (fourth edition). 14-43. Boys' button-on waists, shirts, junior and sport shirts (made from woven fabrics)

(third edition).

15-46. Men's pajama sizes (made from woven fabrics) (third edition).

16-29. Wallpaper.

Diamond core drill fittings (fourth edition).

18-29. Hickory golf shafts.

18-29. Hickory golf shafts.
19-32. Foundry patterns of wood (second edition).
20-47. Staple vitreous china plumbing fixtures (fourth edition).
21-39. Interchangeable ground-glass joints, stopcoks, and stoppers (fourth edition).
22-40. Builders' hardware (nontemplate) (second

edition).

23-30. Feldspar.

24-43. Screw threads and tap-drill sizes.

25-30. Special screw threads. Superseded bv CS24-43.

26-30. Aromatic red cedar closet lining. 27-36. Mirrors (second edition). 28-46. Cotton fabric tents, tarpaulins and covers (second edition).

29-31. Staple seats for water-closet bowls. 30-31. Colors for sanitary ware. (With

(Withdrawn as commercial standard, March 15, 1948). 31-38. Wood shingles (fourth edition).

32-31. Cotton cloth for rubber and pyroxylin coating. 33–43. Knit underwear (exclusive of rayon) (second

edition). Bag, case, and strap leather.

35-47. Hardwood plywood (third edition). 36-33. Fourdrinier wire cloth (second edition). 37-31. Steel bone plates and screws.

37-31. Steel none plates and screws.
38-32. Hospital rubber sheeting.
39-37. Wool and part wool blankets (second edition). (Withdrawn as commercial standard, July 14, 1941).
40-32. Surgeons' rubber gloves.
41-32. Surgeons' latex gloves.
40-42. Structural flow invaliding heard (third editions).

42-43. Structural fiber insulating board (third edition).

43-32. Grading of sulphonated oils.

44-32. Apple wraps.
45-48. Douglas fir plywood (eighth edition).
46-40. Hosiery lengths and sizes (third edition).
47-34. Marking of gold-filled and rolled-gold-plate articles other than watch cases.

48-40. Domestic burners for Pennsylvania anthra-

cite (underfeed type) (second edition). 49-34. Chip board, laminated chip board, and miscellaneous boards for bookbinding purnoses.

50-34. Binders board for bookbinding and other purposes.

51-35. Marking articles made of silver in combina-

tion with gold. 52–35. Mohair pile fabrics (100-percent mohair plain velvet, 100-percent mohair plain frieze, and 50-percent mohair plain frieze).

53-35. Colors and finishes for cast stone.

54–35. Mattresses for hospitals. 55–35. Mattresses for institutions.

CS No.
56-41. Oak flooring (second edition).
57-40. Book cloths, buckrams, and impregnated fabrics for bookbinding purposes except library bindings (second edition).

all elastic webbing).

59-44. Textiles-testing and reporting (fourth

edition). 60-48. Hardwood dimension lumber. (Second edition.) 61–37. Wood-slat venetian blinds.

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 (second edition).

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) (second edition) (published with CS71-41).

71-41. Phenolic disinfectant (soluble type) (second edition) (published with CS70-41).
72-38. Household insecticide (liquid spray type).
73-48. Old growth Douglas fir, Sitka spruce and Western hemleck standard stock doors

(fourth edition). 74-39. Solid hardwood wall paneling.

75-42. Automatic mechanical draft oil burners designed for domestic installations (second edition)

76-39. Hardwood interior trim and molding. 77-48. Enameled cast iron plumbing fixtures (second edition).

78-40. Ground-and-polished lenses for sun glasses (second edition) (published with CS79-40). 79-40. Blown, drawn, and dropped lenses for sun glasses (second edition) (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 taillamps 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 électric warning lanterns.

88-41. Liquid burning flares. 89-40. Hardwood stair treads and risers.

90- (Reserved for power shovels and cranes.) 91-41. Factory-fitted Douglas fir entrance doors. 92-41. Cedar, cypress, and redwood tank stock

lumber. 93-41. 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.

Gas floor furnaces-99-42.

-gravity circulating type. 100-47. Porcelain-enameled steel utensils (third edi-

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 (second edition).

104-46. Warm-air furnaces equipped with vaporizing pot-type oil burners (second edition).

CS No. 105-43. Mineral wool; loose, granulated, or felted form, in low-temperature installations.

106-44. Boys' pajama sizes (woven fabrics) (second edition).

107-45. Commercial electric-refrigeration condensing units (second edition). (Withdrawn as commercial standard September 4, 1947.)

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 fix-

tures.

112-43. Homogeneous fiber wallboard. 113-44. 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.

110-44. Mineral wool; blankets, blocks, insulating cement, and pipe insulation for heated industrial equipment.
 118-44. Marking of jewelry and novelties of silver.
 (E)119-45.1 Dialindicators (for linear measurements).

120-48. Standard stock ponderosa pine doors (third edition).

sizes).

edition).

121-45. Western hemlock plywood.

123-45. Grading of diamond powder.

(E)124-45. Master disks.

125-47. Prefabricated homes (second edition).

126-45. Tank mounted air compressors.

127-45. Self-contained mechanically refrige

127-45. Self-contained mechanically refrigerated drinking water coolers.

128-45. Men's sport shirt sizes—woven fabrics (other coolers). than those marked with regular neckband CS No.

129-47. Materials for safety wearing apparel (second edition) 130-46. Color materials for art education in schools.

131-46. Industrial mineral wool products, all typestesting and reporting.

132–46. Hardware cloth. 133–46. Woven wire netting.

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).

137-46. Size measurements for men's and boys' shorts (woven fabrics).

138-47. Insect wire screening.
139-47. Work gloves.
140-47. Convectors: testing and rating.
141-47. Sine bars, blocks, plates, and fixtures.
142-47. Automotive lifts.

143-47. Standard strength and extra strength perfo-

rated 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. 148-48. Men's circular flat and rib knit rayon under-

wear. 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 preservative.

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 National Bureau of Standards, Washington 25, D. C.

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

