

U. S. DEPARTMENT OF COMMERCE

ROY D. CHAPIN, Secretary

BUREAU OF STANDARDS

LYMAN J. BRIGGS, Acting Director

SURGEONS' RUBBER GLOVES

COMMERCIAL STANDARD CS40-32

[Issued September 9, 1932]

Effective date for New Production July 6, 1932



A RECORDED STANDARD OF THE INDUSTRY

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON: 1932

PROMULGATION STATEMENT FOR SURGEONS' RUBBER GLOVES

Pursuant to a request from the American Hospital Association, in cooperation with the Rubber Manufacturers Association, the Department of Commerce submitted to the industry on April 26, 1932, a recommended commercial standard for surgeons' rubber gloves. The industry has since accepted and approved for promulgation by the Department of Commerce, through the Bureau of Standards, the standard as shown herein.

This recommendation became effective for new production on July 6, 1932.

Promulgation recommended.

I. J. FAIRCHILD,
Chief, Division of Trade Standards.

Promulgated.

LYMAN J. BRIGGS,
Acting Director, Bureau of Standards.

Promulgation approved.

ROY D. CHAPIN,
Secretary of Commerce.

SURGEONS' RUBBER GLOVES

COMMERCIAL STANDARD

SCOPE

1. This specification covers minimum requirements for material and workmanship of surgeons' rubber gloves.

WEIGHTS AND SIZES

2. Gloves shall be supplied in medium and heavy weights and sizes 6 to 9½, inclusive. (See Table 1.)

MATERIAL AND WORKMANSHIP

3. Gloves shall contain at least 95 per cent by volume of best quality new wild or plantation rubber, and shall be free from coloring matter or fillers, reclaimed rubber, or substitutes. The surface shall be smooth and free from ingrained particles, blisters, thin spots, or other imperfections.

GENERAL REQUIREMENTS

4. Gloves shall have a rolled or banded wrist.

(Manufacturers recommend the rolled wrist, which will be regularly supplied unless the banded wrist is demanded.)

5. *Tensile strength*.—The tensile strength of medium weight gloves shall be at least 2,700 lbs./in.² The tensile strength of heavy weight gloves shall be at least 2,400¹ lbs./in.²

6. *Elongation*.—The ultimate elongation shall be at least 600 per cent (1 inch to 7 inches).

7. *Resistance to sterilization*.—A sample shall be wrapped in gauze and subjected to five successive sterilizations in steam at 15 pounds pressure for periods of 15² minutes each, with intervals of 20 minutes between sterilizations. Test strips shall remain at room temperature for 24 hours before being tested. The tensile strength after this test shall be not less than 1,500 lbs./in.² on mediums and 1,200³ lbs./in.² on heavies.

¹ The Federal Specification (ZZ-G-421) requires 2,700 lbs./in.²

² The Federal Specification (ZZ-G-421) requires 20 minute periods.

³ The Federal Specification (ZZ-G-421) requires 1,500 lbs./in.²

DETAIL REQUIREMENTS

8. The length, width, and weight of gloves shall conform to Table 1.

TABLE 1.—Measurements and weights of surgeons' rubber gloves

Size number	Length from tip of middle finger to end of gantlet, minimum	Circumference of palm at a point between base of index finger and thumb (± 5 per cent)	Weight per dozen pairs	
			Medium (minimum)	Heavy (minimum)
	<i>Inches</i>	<i>Inches</i>	<i>Ounces</i>	<i>Ounces</i>
6	10	6	8 $\frac{3}{4}$	11 $\frac{3}{4}$
6 $\frac{1}{2}$	10	6 $\frac{1}{2}$	9 $\frac{1}{4}$	12 $\frac{3}{4}$
7	10	7	10 $\frac{1}{4}$	13 $\frac{3}{4}$
7 $\frac{1}{2}$	10 $\frac{1}{2}$	7 $\frac{1}{2}$	11 $\frac{1}{4}$	14 $\frac{3}{4}$
8	10 $\frac{1}{2}$	8	13	16
8 $\frac{1}{2}$	10 $\frac{1}{2}$	8 $\frac{1}{2}$	13 $\frac{3}{4}$	16 $\frac{3}{4}$
9	10 $\frac{1}{2}$	9	14 $\frac{3}{4}$	17 $\frac{3}{4}$
9 $\frac{1}{2}$	10 $\frac{1}{2}$	9 $\frac{1}{2}$	15 $\frac{3}{4}$	18 $\frac{3}{4}$

MARKING

9. Each glove shall be marked with the manufacturer's or supplier's name or trade name.

10. Each package containing gloves conforming to this commercial standard shall carry a label which may read as follows: "These gloves are certified to conform to all requirements of the Commercial Standard for Surgeons' Rubber Gloves CS40-32.

"(Signed) _____."

11. In lieu of the above certification the words "conforms to CS40-32," or other identification which may later be approved by the industry, may be substituted to conserve space. The use of this inscription shall indicate that the manufacturer (or supplier) subscribes to the above guarantee.

HISTORY OF PROJECT

Under date of February 23, 1931, the American Hospital Association, through John M. Smith, chairman of its simplification and standardization committee, requested the assistance of the Bureau of Standards in the establishment of a commercial standard for surgeons' rubber gloves.

The Bureau of Standards then submitted a tentative specification drafted by the above committee to the Rubber Manufacturers Association for comment.

At a meeting of manufacturers called by the Rubber Manufacturers Association and held in Akron, Ohio, on February 17, 1932, this specification was discussed in detail and a few minor changes were recommended. Following the approval of the committee of the American Hospital Association, the specification was circulated to the entire industry for acceptance.

STANDING COMMITTEE

To represent the industry in the consideration of any suggested revisions, and in other ways to promote adherence and enhance the value of the standard, the American Hospital Association and the Rubber Manufacturers Association have appointed a standing committee composed of representative users, distributors, and producers. The membership of this committee is given below.

Asa S. Bacon (chairman), superintendent, Presbyterian Hospital, Chicago, Ill.
Dr. Geo. O'Hanlon, director, Jersey City Hospital, Jersey City, N. J.
John M. Smith, director, Hahnemann Hospital, Philadelphia, Pa.
G. W. Wallerich, treasurer, V. Mueller & Co., Chicago, Ill.
H. F. Baer, president, A. S. Aloe & Co., St. Louis, Mo.
T. A. Furcht, Seamless Rubber Co., New Haven, Conn.
C. D. Hubler, Faultless Rubber Co., Ashland, Ohio.
Mrs. L. E. Hankins, Hankins Rubber Co., Massillon, Ohio.
F. W. Reynolds, ex officio secretary, Bureau of Standards.

EFFECTIVE DATE

The effective date for new production was set for July 6, 1932.

ACCEPTANCE OF COMMERCIAL STANDARD

Please sign and return this sheet to Division of Trade Standards, Bureau of Standards, Washington, D. C.

Date_____

DIVISION OF TRADE STANDARDS,
BUREAU OF STANDARDS,
Washington, D. C.

GENTLEMEN :

We, the undersigned, do hereby accept the original draft of the commercial standard as our standard practice in the

{	Production ¹	} of surgeons' rubber gloves
{	Distribution ¹	
{	Use ¹	

beginning _____, and will use our best effort
(date)

in securing its general adoption.

To permit intelligent review of the effectiveness of the commercial standard every year by an accredited committee of all interests, working in cooperation with the Department of Commerce, we plan to supply all data, upon request, which may be necessary for the development of constructive revisions. It is understood that any suggested modifications will be submitted as soon as formulated, and shall not be promulgated until accepted in form similar to this recommendation.

Signature_____

(Above signature should be in ink)

(Kindly typewrite or print the following lines)

Title_____

Company_____

Street address_____

City and State_____

We are members of the following associations or other organizations interested in the production, sale, or use of surgeons' rubber gloves :

¹ Please designate which group you represent by drawing lines through the other two. In the case of related interests, trade papers, colleges, etc., desiring to record their general approval, the words "In Principle" should be added after the signature.

(Cut on this line)

TO THE ACCEPTOR

In signing the acceptance blank, please bear the following points clearly in mind:

1. *Adherence.*—The Department of Commerce has no regulatory powers to enforce adherence to the commercial standards. Instead, this program is based on voluntary cooperation and self-government in industry. To make this specific standardization operate as a satisfactory example of self-government, it is highly desirable that it be kept distinct from any plan or method of governmental regulation or control. It will be successful according to the degree to which manufacturers, distributors, and purchasers adhere to its terms and conditions.

2. *The industry's responsibility.*—The department cooperates only on the request of the industry, and assumes no responsibility for industrial acceptance or adherence. This program was developed by the industry on its own initiative. Its success depends wholly on the active cooperation of those concerned.

3. *The acceptor's responsibility.*—You are entering into an entirely voluntary arrangement, whereby the members of the industry—the distributors and consumers of the product, and others concerned—hope to secure the benefits inherent in commercial standardization. Those responsible for this standard realize that instances may occur in which it will be necessary to supply or purchase items not included therein. The purpose is, however, to secure wider support for nationally recognized standards covering grade, quality, and other characteristics of products. Consumers can make the program a success if, in their purchasing, they will make a definite and conscientious effort to specify in terms of this commercial standard.

4. *The department's responsibility.*—The function performed by the Department of Commerce is fourfold: First, to act as a coordinator to insure adequate consideration of the needs of all interests; second, to supply such assistance and advice in the development of this program as past experience with similar programs may suggest; third, to solicit and record the extent of adoption and adherence to the standard; and, fourth, to add all possible prestige to this standardization movement by publication and promulgation if and when it is adopted and accepted by all elements directly concerned.

ACCEPTORS

ASSOCIATIONS

Allentown Hospital Association, Allentown, Pa.
 American Hospital Association, Chicago, Ill.
 American Sanatorium Association, New York, N. Y.
 Englewood Hospital Association, Englewood, N. J.
 French Hospital Association, Los Angeles, Calif.
 Hospital Association of Pennsylvania, Sayre, Pa.
 National Association of Retail Druggists, Chicago, Ill.
 National Wholesale Druggists' Association, New York, N. Y.
 Northern Pacific Beneficial Association, Tacoma, Wash.
 St. Luke's Hospital Association, Denver, Colo.
 Santa Fe Coast Lines Hospital Association, Los Angeles, Calif.

FIRMS, HOSPITALS, AND PHYSICIANS

Abington Memorial Hospital, Abington, Pa.
 Agnews State Hospital, Agnew, Calif.
 Akron, The City Hospital of, Akron, Ohio.
 Alabama, State of, Convict Department, Montgomery, Ala.
 Allegheny General Hospital, Pittsburgh, Pa.
 Aloe Co., A. S., St. Louis, Mo.
 American Hospital Supply Corporation, Chicago, Ill.
 Ancker Hospital, St. Paul, Minn.
 Arnot-Ogden Memorial Hospital, Elmira, N. Y.
 Atlantic City Hospital, Atlantic City, N. J.
 Auburn City Hospital, The, Auburn, N. Y.
 Aultman Hospital, Canton, Ohio.
 Avent, J. K., M. D., Grenada, Miss.
 Baltimore City Hospitals, Baltimore, Md.
 Baptist State Hospital, Little Rock, Ark.
 Barnes Hospital, St. Louis, Mo.
 Beekman Street Hospital, New York, N. Y.
 Beth Moses Hospital, Brooklyn, N. Y.
 Binghamton State Hospital, Binghamton, N. Y.
 Birmingham Baptist Hospital, Birmingham, Ala.
 Blodgett Memorial Hospital, Grand Rapids, Mich.
 (Boston) Institutions Department, Boston, Mass.
 Bradford Hospital, Bradford, Pa.
 Bridgeport Department of Public Welfare, Bridgeport, Conn.
 Brigham Hospital, Peter Bent, Boston, Mass.
 Brigham Hospital, Robert Breck, Boston, Mass.
 Brockton Hospital Co., The, Brockton, Mass.
 Bronx Hospital and Dispensary, The, Bronx, N. Y.
 Bryn Mawr Hospital, Bryn Mawr, Pa.
 Buhl Hospital, The Christian H., Sharon, Pa.
 Burbank Hospital, Fitchburg, Mass.
 California Hospital, The, Los Angeles, Calif.
 California, State of, Sacramento, Calif.
 Canton Rubber Co., The, Canton, Ohio.
 Central State Hospital, Lakeland, Ky.
 Charleston General Hospital, Charleston, W. Va.
 Chester County Hospital, The, West Chester, Pa.
 Children's Hospital, The, Cincinnati, Ohio.
 Children's Hospital, The, Washington, D. C.
 Children's Hospital of Philadelphia, Philadelphia, Pa.
 Children's Hospital of Pittsburgh, Pittsburgh, Pa.
 Children's Hospital Society, Los Angeles, Calif.
 Children's Orthopedic Hospital, Seattle, Wash.
 Church Home and Infirmary, The, Baltimore, Md.
 Cincinnati General Hospital, Cincinnati, Ohio.
 Clarkson Memorial Hospital, Bishop, Omaha, Nebr. (In principle).
 Cleveland City Hospital, Cleveland, Ohio.
 Cleveland State Hospital, Cleveland, Ohio.
 Codman and Shurtleff (Inc.), Boston, Mass.
 Cole, A. V., M. D., Indiana Harbor, Ind.
 Colorado State Hospital, Pueblo, Colo.
 Connecticut State Hospital, Middletown, Conn.
 Cook County Hospital, Chicago, Ill.
 Cooley Dickinson Hospital, Northampton, Mass.
 Danvers (Mass.) State Hospital, Hathorne P. O., Danvers, Mass.
 Davol Rubber Co., Providence, R. I.
 Delaware County Hospital, Drexel Hill, Pa.
 Delaware Hospital, The, Wilmington, Del.
 Delray General Hospital, Detroit, Mich.

- Dixon State Hospital, Dixon, Ill.
 Duval County Hospital, Jacksonville, Fla.
 Eastern Oklahoma Hospital, Vinita, Okla.
 Eastern State Hospital, Williamsburg, Va.
 Eitel Hospital, Minneapolis, Minn.
 El Paso City-County Hospital, El Paso, Tex.
 Emanuel Hospital, Portland, Oreg.
 Emory University Hospital, Emory University, Ga.
 Fairview Hospital, Minneapolis, Minn.
 Faultless Rubber Co., Ashland, Ohio.
 Fifth Avenue Hospital of the City of New York, The, New York, N. Y.
 Flower Hospital, The, Toledo, Ohio.
 Foote Memorial Hospital, W. A., Jackson, Mich.
 Ford Hospital, Henry, Detroit, Mich.
 Fort Sanders Hospital, Knoxville, Tenn.
 Franklin Square Hospital, Baltimore, Md.
 Germantown Dispensary and Hospital, Philadelphia, Pa.
 Gillette State Hospital for Crippled Children, St. Paul, Minn.
 Good Samaritan Hospital, Portland, Oreg.
 Grace Hospital, New Haven, Conn.
 Grandview Hospital, La Crosse, Wis.
 Grant Hospital, Columbus, Ohio.
 Gross Co., Wm. M., Sharon, Pa.
 Groves Latter-Day Saints Hospital, Dr. W. H., Salt Lake City, Utah.
 Hackley Hospital, Muskegon, Mich.
 Hahnemann Hospital, Scranton, Pa.
 Hamot Hospital, Erie, Pa.
 Hankins Rubber Co., The, Massillon, Ohio.
 Harrisburg Hospital, Harrisburg, Pa.
 Harrisburg Polyclinic Hospital, Harrisburg, Pa.
 Hazleton State Hospital, Hazleton, Pa.
 Hermann Hospital, Houston, Tex.
 Highland Park General Hospital, Highland Park, Mich.
 Hospital Bureau of Standards and Supplies, New York, N. Y.
 Hospital for Children and Training School for Nurses, San Francisco, Calif.
 Hospital for Joint Diseases, New York, N. Y.
 Hospital Management, Chicago, Ill. (in principle).
 Hospital of St. Barnabas, Newark, N. J.
 Hospital of the Good Samaritan, Los Angeles, Calif.
 Hospital of the University of Pennsylvania, Philadelphia, Pa.
 Hurley Hospital, Flint, Mich.
 Indiana State Soldiers' Home Hospital, La Fayette, Ind.
 Indiana University School of Medicine and Hospitals, Indianapolis, Ind.
 Institution for Feeble Minded, Columbus, Ohio.
 Iowa Board of Control of State Institutions, Des Moines, Iowa.
 Iowa Training School for Boys, Eldora, Iowa.
 Jackson Memorial Hospital, Miami, Fla.
 Jamison Semple Co., New York, N. Y.
 Jefferson Davis Hospital, Houston, Tex.
 Jefferson Hospital, Roanoke, Va.
 Jewish Hospital, Cincinnati, Ohio.
 Jewish Memorial Hospital, New York, N. Y.
 Justice Drug Co., Greensboro, N. C.
 Knickerbocker Hospital, New York, N. Y.
 Lancaster General Hospital, The, Lancaster, Pa.
 Lankenau Hospital, The, Philadelphia, Pa.
 Lincoln Rubber Co., The, Barberton, Ohio.
 Los Angeles County General Hospital, The, Los Angeles, Calif. (in principle).
 Louisville City Hospital, Louisville, Ky.
 Lutheran Hospital, St. Louis, Mo.
 Madison General Hospital, Madison, Wis.
 Mary Day Nursery and Children's Hospital, The, Akron, Ohio.
 Massillon Rubber Co., The, Massillon, Ohio.
 McKesson-Western Wholesale Drug Co. (Ltd.), Los Angeles, Calif.
 Memorial Hospital, The, Pawtucket, R. I.
 Memorial Hospital, The, Worcester, Mass.
 Mercer Hospital, Trenton, N. J.
 Mercy Hospital, Wilkes-Barre, Pa.
 Mercy Hospital of Bakersfield, Bakersfield, Calif.
 Mercy Hospital of Canton, Canton, Ohio.
 Methodist Hospital of Southern California, Los Angeles, Calif.
 Michigan Farm Colony for Epileptics, Wahjamega, Mich.
 Michigan State Administrative Board, Medical Supply Depot, Lansing, Mich.
 Miller Drug Sundry Co., Baltimore, Md. (in principle).
 Miller Glove Co., Massillon, Ohio.
 Miller Rubber Products Co., (division of the B. F. Goodrich Co.), Akron, Ohio.
 Milwaukee Children's Hospital, Milwaukee, Wis.
 Misericordia Hospital, Philadelphia, Pa.

- Montana Deaconess Hospital, Great Falls, Mont.
- Montefiore Hospital, Pittsburgh, Pa.
- Morningside Hospital, Tulsa, Okla.
- Morristown Memorial Hospital, The, Morristown, N. J.
- Mount Sinai Hospital, Cleveland, Ohio.
- Mueller and Co., V., Chicago, Ill.
- Muhlenberg Hospital, Plainfield, N. J.
- Nebraska Institution for Feeble Minded, Beatrice, Nebr.
- New England Sanitarium and Hospital, Melrose P. O., Stoneham, Mass.
- New Rochelle Hospital, New Rochelle, N. Y.
- New York Homeopathic Medical College and Flower Hospital, New York, N. Y.
- New York Hospital, New York, N. Y.
- New York Post-Graduate Hospital, New York, N. Y.
- Niagara Falls, Memorial Hospital, Niagara Falls, N. Y.
- North Dakota State Hospital, Jamestown, N. Dak.
- Northern Wisconsin Colony and Training School, Chippewa Falls, Wis.
- Oak Park Hospital and School for Nurses, Oak Park, Ill.
- Oklahoma State University Hospital and Crippled Children's Hospital, Oklahoma City, Okla.
- Ohio Valley General Hospital, Wheeling, W. Va.
- Orange Memorial Hospital, Orange, N. J.
- Orthopaedic Hospital School, Los Angeles, Calif.
- Packer Hospital, Robert, Sayre, Pa.
- Paterson General Hospital, Paterson, N. J.
- Patton State Hospital, Patton, Calif.
- Pennsylvania Hospital, Philadelphia, Pa.
- Peoples Hospital, New York, N. Y.
- Peralta Hospital, Oakland, Calif.
- Philadelphia Department of Public Health, Philadelphia, Pa.
- Physicians' Supply Company of Philadelphia, The, Philadelphia, Pa.
- Piedmont Hospital, Atlanta, Ga.
- Pioneer Rubber Co., The, Willard, Ohio.
- Pownal State School, Pownal, Me.
- Presbyterian Hospital of the City of Chicago, The, Chicago, Ill.
- Preston School of Industry Hospital, Ione, Calif.
- Reading Hospital, The, West Reading, Pa.
- Receiving Hospital, Detroit, Mich.
- Reid Memorial Hospital, Richmond, Ind.
- Retreat Mental Hospital, Retreat, Pa.
- Rhode Island, State Public Welfare Commission, Howard, R. I.
- Riverside County Hospital, Arlington, Calif.
- Rochester General Hospital, Rochester, N. Y.
- Rochester General Hospital, Rochester, Pa.
- Rockefeller Institute for Medical Research, The, New York, N. Y.
- Ross (Inc.), Will, Milwaukee, Wis.
- St. Elizabeth Hospital, Covington, Ky.
- St. John's Hospital of the Church Charity Foundation of Long Island, Brooklyn, N. Y.
- St. Louis Children's Hospital, St. Louis, Mo.
- St. Luke's Hospital, Aberdeen, S. Dak.
- St. Luke's Hospital, Bethlehem, Pa.
- St. Luke's Hospital, Boise, Idaho.
- St. Luke's Hospital, Cleveland, Ohio.
- St. Luke's Hospital, Jacksonville, Fla. (in principle).
- St. Luke's Hospital, New Bedford, Mass.
- St. Luke's Hospital, Racine, Wis.
- St. Luke's Hospital, St. Paul, Minn.
- St. Luke's Hospital, Utica, N. Y.
- St. Luke's Hospital of Newburgh, N. Y., Newburgh, N. Y.
- St. Mary Hospital, Cincinnati, Ohio.
- St. Vincent's Hospital, Jacksonville, Fla.
- Saginaw General Hospital, Saginaw, Mich.
- San Joaquin General Hospital, French Camp, Calif.
- Santa Barbara Cottage Hospital, Santa Barbara, Calif.
- Scranton State Hospital, Scranton, Pa.
- Sealy Hospital, John, Galveston, Tex.
- Seamless Rubber Co. (Inc.), The, New Haven, Conn.
- Seaside Hospital of Long Beach (Ltd.), Long Beach, Calif.
- Seattle Department of Health and Sanitation, The City of, Seattle, Wash.
- Sonoma State Home, Eldridge, Calif.
- Southern Baptist Hospital, New Orleans, La.
- South Side Hospital of Pittsburgh, Pittsburgh, Pa.
- Spartanburg General Hospital, Spartanburg, S. C.
- Speed, Kellogg, M. D., Chicago, Ill.
- Springfield City Hospital, Springfield, Ohio.
- Springfield Hospital, The, Springfield, Mass.
- Stanford University Hospitals, San Francisco, Calif.
- Strong Memorial Hospital, Rochester, N. Y.
- Suburban General Hospital, Bellevue, Pa.
- Sutter Hospital, Sacramento, Calif.
- Sydenham Hospital, New York, N. Y.

Toledo Hospital, Toledo, Ohio.
 Touro Infirmary, New Orleans, La.
 Truesdale Hospital (Inc.), The, Fall River, Mass.
 Union Hospital, Terre Haute, Ind.
 Uniontown Hospital, Uniontown, Pa.
 Universal Hospital Supply Co., Chicago, Ill.
 University Hospital, Augusta, Ga.
 University Hospital, Baltimore, Md.
 University Hospital, The, Cleveland, Ohio.
 University of Calif. Hospital, San Francisco, Calif.
 University of Colorado School of Medicine and Hospitals, Denver, Colo.
 University of Pennsylvania, Philadelphia, Pa.
 Washington County Hospital, Hagerstown, Md.
 Waterbury Hospital, Waterbury, Conn.
 Wesley Memorial Hospital, Chicago, Ill.
 West Baltimore General Hospital (Inc.), Baltimore, Md.
 Western Pennsylvania Hospital, The, Pittsburgh, Pa.
 Westwood Hospital, Westwood, Calif.
 Wilkes - Barre General Hospital, Wilkes-Barre, Pa.

Wilson Memorial Hospital, Chas. S., Johnson City, N. Y.
 Wilson Rubber Co., The, Canton, Ohio.
 Woman's Hospital, Detroit, Mich.
 Woonsocket Hospital, Woonsocket, R. I.
 Worcester City Hospital, Worcester, Mass.

GOVERNMENT

Interior, Department of The, Washington, D. C.
 Treasury Department, Washington, D. C.
 U. S. Marine Hospital, San Francisco, Calif.
 U. S. Soldiers' Home Hospital, Washington, D. C.
 U. S. Penitentiary Hospital, Leavenworth, Kans.
 Veterans' Administration Home, Johnson City, Tenn.
 Veterans' Administration Hospital, Marion, Ind.
 St. Elizabeths Hospital, Washington, D. C.
 Freedmen's Hospital, Washington, D. C.
 Station Hospital, Fort Benning, Ga.
 Veterans' Administration, Washington, D. C.

COMMERCIAL STANDARDS

CS No.	Item	CS No.	Item
0-30.	The commercial standards service and its value to business.	20-30.	Staple vitreous china plumbing fixtures.
1-32.	Clinical thermometers (first revision).	21-30.	Interchangeable ground glass joints.
2-30.	Mopsticks.	22-30.	Builders' hardware (nontemplate).
3-28.	Stoddard solvent.	23-30.	Feldspar.
4-29.	Staple porcelain (all clay) plumbing fixtures.	24-30.	Standard screw threads.
5-29.	Steel pipe nipples.	25-30.	Special screw threads.
6-31.	Wrought-iron pipe nipples (first revision).	26-30.	Aromatic red cedar closet lining.
7-29.	Standard weight malleable iron or steel screwed unions.	27-30.	Plate glass mirrors.
8-30.	Plain and thread plug and ring gage blanks.	28-32.	Cotton fabric tents, tarpaulins, and covers.
9-29.	Builders' template hardware.	29-31.	Staple seats for water-closet bowls.
10-29.	Brass pipe nipples.	30-31.	Colors for sanitary ware.
11-29.	Regain of mercerized cotton yarns.	31-31.	Red cedar shingles.
12-29.	Domestic and industrial fuel oils.	32-31.	Cotton cloth for rubber and pyroxylin coating.
13-30.	Dress patterns.	33-32.	Knit underwear (exclusive of rayon).
14-31.	Boys' blouses, button-on waists, shirts, and junior shirts.	34-31.	Bag, case, and strap leather.
15-29.	Men's pajamas.	35-31.	Plywood (hardwood and eastern red cedar).
16-29.	Wall paper.	36-31.	Fourdrinier wire cloth.
17-32.	Diamond core drill fittings (first revision) (in preparation).	37-31.	Steel bone plates and screws.
18-29.	Hickory golf shafts.	38-32.	Hospital rubber sheeting.
19-32.	Foundry patterns of wood.	39-32.	Wool and part wool blankets (in preparation).
		40-32.	Surgeons' rubber gloves.
		41-32.	Surgeons latex gloves.
		42-32.	Fiber insulating board (in preparation).

NOTICE.—Those interested in commercial standards with a view toward accepting them as a basis of every-day practice in their industry may secure copies of the above standards, while the supply lasts, by addressing the Division of Trade Standards, Bureau of Standards, Washington, D. C.



