

U. S. DEPARTMENT OF COMMERCE

ROY D. CHAPIN, Secretary

BUREAU OF STANDARDS

LYMAN J. BRIGGS, Acting Director

# SURGEONS' LATEX GLOVES

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COMMERCIAL STANDARD CS41-32

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[Issued September 8, 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'  
LATEX GLOVES

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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' LATEX GLOVES

## COMMERCIAL STANDARD

### SCOPE

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

### WEIGHT AND SIZES

2. Surgeons' latex gloves shall be supplied in medium weight only and in sizes 6 to 9½, inclusive. (See Table 1.)

### MATERIAL AND WORKMANSHIP

3. Gloves shall be made directly from liquid latex. The surface shall be smooth and free from ingrained particles, thin spots, or other imperfections.

### GENERAL REQUIREMENTS

4. Gloves shall have a rolled edge at the wrist.

5. *Tensile strength*.—The tensile strength of fresh gloves shall be at least 3,500 pounds per square inch. Upon exposure in the standard Geer oven at 70° C. the gloves shall have a tensile strength of at least 3,000 pounds after 7 days, 2,500 pounds after 14 days, and 2,000 pounds after 21 days.

6. *Elongation*.—The ultimate elongation of fresh gloves shall be at least 820 per cent (1 to 9.2 inches). After 7 days in the standard Geer oven aging test the elongation shall be 800 per cent, and it shall remain so at the end of the 14 and 21 day periods in the Geer oven.

7. *Resistance to sterilization*.—A sample shall be wrapped in gauze and subjected to 5 successive sterilizations in steam at 15 pounds' pressure for periods of 15 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 2,500 pounds per square inch. After 10 sterilizations the tensile shall be not less than 2,000 pounds per square inch.

### DETAIL REQUIREMENTS

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

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

Size No.	Length from tip of middle finger to end of gauntlet, minimum	Circumfer- ence of palm at a point be- tween base of index finger and thumb ( $\pm$ 5 per cent)	Weight per dozen pairs (minimum)
	Inches	Inches	
6.....	10	6	7 $\frac{3}{4}$
6 $\frac{1}{2}$ .....	10	6 $\frac{1}{2}$	8 $\frac{1}{4}$
7.....	10	7	9
7 $\frac{1}{2}$ .....	10 $\frac{1}{4}$	7 $\frac{1}{2}$	9 $\frac{3}{4}$
8.....	10 $\frac{1}{2}$	8	10 $\frac{3}{4}$
8 $\frac{1}{2}$ .....	10 $\frac{1}{2}$	8 $\frac{1}{2}$	11 $\frac{1}{2}$
9.....	10 $\frac{3}{4}$	9	12 $\frac{3}{4}$
9 $\frac{1}{2}$ .....	10 $\frac{3}{4}$	9 $\frac{1}{2}$	13

## MARKING

9. Each glove shall be marked with the actual manufacturer'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' Latex Gloves CS41-32.

(Signed) -----

11. In lieu of the above certification the words "Conforms to CS41-32," 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 subscribes to the above guarantee.

## HISTORY OF PROJECT

Under date of February 23, 1931, the American Hospital Association, represented by John M. Smith, requested the cooperation of the Bureau of Standards in the establishment of a commercial standard for surgeons' rubber gloves.

At a meeting of manufacturers of rubber gloves called by the Rubber Manufacturers Association and held at Akron, Ohio, on February 17, 1932, the manufacturers voted unanimously that, due to differences in physical and chemical characteristics and method of manufacture, a standard for surgeons' latex gloves should be established as distinct from the usual so-called brown-type glove.

Accordingly, upon representation to the committee on simplification and standardization of the American Hospital Association, the establishment of this standard was requested.

The above meeting of manufacturers supplied data for the formulation of this standard, which was circulated to the 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. GEORGE O'HANLON, director, Jersey City Hospital, Jersey City, N. J.  
JOHN M. SMITH, director, Hahnemann Hospital, Philadelphia, Pa.  
H. P. CROXTON, Massillon Rubber Co., Massillon, Ohio.  
F. T. WILSON, Wilson Rubber Co., Canton, Ohio.  
R. C. DABNEY, Miller Rubber Co., Akron, Ohio.  
G. W. WALLERICH, treasurer, V. Mueller & Co., Chicago, Ill.  
H. F. BAER, president, A. S. Aloe & Co., St. Louis, Mo.  
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<sup>1</sup>  
distribution<sup>1</sup>} of surgeons' latex gloves be-  
use<sup>1</sup>ginning-----, and will use our best effort in securing  
(Date)  
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' latex gloves:

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<sup>1</sup>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.

## 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. Lukes 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.  
 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.  
 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.  
 Bronx Hospital and Dispensary, The, Bronx, N. Y.  
 Bryn Mawr Hospital, Bryn Mawr, Pa.  
 Buhl Hospital, The Christian H., Sharon, Pa.  
 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, Denver, Colo.  
 Children's Hospital of Philadelphia, Philadelphia, Pa.  
 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.  
 El Paso City-County Hospital, El Paso, Tex.  
 Emanuel Hospital, Portland, Oreg.  
 Emory University Hospital, Emory University, Ga.  
 Fairview Hospital, Minneapolis, Minn.

- Fifth Avenue Hospital of the City of New York, 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.  
 Grace Hospital, New Haven, Conn.  
 Gross Co., Wm. M., Sharon, Pa.  
 Groves Latter-Day Saints Hospital, Dr. W. H., Salt Lake City, Utah.  
 Hackley Hospital, Muskegon, Mich.  
 Hamot Hospital, Erie, Pa.  
 Hankins Rubber Co., The, Massillon, Ohio.  
 Harrisburg Hospital, Harrisburg, Pa.  
 Harrisburg Polyclinic Hospital, Harrisburg, Pa.  
 Hermann Hospital, Houston, Tex.  
 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 Import Corporation, 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 Training School for Boys, Eldora, Iowa.  
 Jamison Sample Co., New York, N. Y.  
 Jefferson Davis Hospital, Houston, Tex.  
 Jewish Hospital, Cincinnati, Ohio.  
 Jewish Memorial Hospital, New York, N. Y.  
 Justice Drug Co., Greensboro, N. C.  
 Knoxville General Hospital, Knoxville, Tenn.  
 Lankenau Hospital, The, Philadelphia, Pa.  
 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.  
 Methodist Hospital of Southern California, Los Angeles, Calif.  
 Michigan Farm Colony for Epileptics, Wahjamega, Mich.  
 Michigan State Administration 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.  
 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.  
 Mueller & Co., V., Chicago, Ill.  
 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.  
 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.  
 People's Hospital Co., Akron, Ohio.  
 Peoples Hospital, New York, N. Y.  
 Peralta Hospital, Oakland, Calif.  
 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.  
 Research Hospital, Kansas City, Mo.  
 Retreat Mental Hospital, Retreat, Pa.  
 Rhode Island State Public Welfare Commission, Howard, R. I.  
 Riverside County Hospital, Arlington, Calif.  
 Rochester General Hospital, Rochester, Pa.  
 Rockefeller Institute for Medical Research, The, New York, N. Y.  
 Ross (Inc.), Will, Milwaukee, Wis.  
 Saginaw General Hospital, Saginaw, Mich.  
 St. Elizabeths 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, Utica, N. Y.  
 St. Luke's Hospital of Newburgh, N. Y., Newburgh, N. Y.  
 Santa Barbara Cottage Hospital, Santa Barbara, Calif.  
 Scranton State Hospital, Scranton, Pa.  
 Seaside Hospital, Long Beach (Ltd.), Long Beach, Calif.  
 Seattle Department of Health and Sanitation, The City of, Seattle, Wash.  
 Smith-Faus Drug Co., Salt Lake City, Utah.  
 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.  
 United States Rubber Co., Providence, R. I.  
 Universal Hospital Supply Co., Chicago, Ill.  
 University Hospital, Augusta, Ga.  
 University Hospital, Baltimore, Md.  
 University Hospital, The, Cleveland, Ohio.  
 University of Colorado School of Medicine and Hospitals, Denver, Colo.  
 University of California Hospital, San Francisco, Calif.  
 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.  
 Westwood Hospital, Westwood, Calif.  
 Wilson Rubber Co., The, Canton, Ohio.  
 Woonsocket Hospital, Woonsocket, R. I.

## GOVERNMENT

- Interior, Department of, Washington, D. C.  
 Treasury Department, Washington, D. C.  
 United States Marine Hospital, San Francisco, Calif.  
 United States Soldiers' Home Hospital, Washington, D. C.  
 Veterans' Administration Home, Johnson City, Tenn.  
 Veterans' Administration Hospital, Marion, Ind.  
 St. Elizabeths Hospital, Washington, D. C.  
 Freedman's Hospital, Washington, D. C.  
 Station Hospital, Fort Benning, Ga.  
 Veterans' Administration, Washington, D. C.  
 War Department, Washington, D. C.



## COMMERCIAL STANDARDS

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CS No.	CS No.
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 uncons.	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.)	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.

