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Letter  
Circular  
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TEXTILE TESTING EQUIPMENT

By Josephine M. Blandford

INTRODUCTION

The properties of textile fibers, yarns, and fabrics are becoming increasingly important with the introduction and popularity of a wide range of synthetic textile products and the development of textiles for specialized industrial and consumer usage. The testing of textiles makes possible a study of these properties, is a criterion for quality evaluation, and a means of estimating and developing textile potentialities. The testing of textiles in industrial, research, and college laboratories is increasing steadily. Facilitating this expansion is the development and availability of textile testing equipment.

This circular lists names and addresses of some of the dealers in textile testing equipment, chemical laboratory equipment and reagents, and improvised laboratory testing equipment. It has been prepared by the National Bureau of Standards to answer requests for sources of supply. It does not purport to be complete, nor does the listing of a dealer or testing device constitute endorsement by this Bureau. Inquiries regarding equipment should be addressed to the dealer and not to the National Bureau of Standards.

References are given to standards and specifications which outline testing procedures followed by many textile testing laboratories. Research Papers and other publications pertinent to the evaluation of properties associated with the instruments and equipment are listed chronologically.

A number of the publications of this Bureau are issued regularly to many college and public libraries which maintain files for reference.

Government publications, unless otherwise stated, may be purchased from the Superintendent of Documents, Government Printing Office, Washington 25, D. C. Remittance should be made either by coupons (obtainable from the Superintendent of Documents in sets of 20 for \$1.00 and good until used), or by check or money order payable to the "Superintendent of Documents, Government Printing Office, Washington 25, D. C.", accompanying the publication order.

TEXTILE TESTING EQUIPMENT

Dealer or Reference

Abraser, Taber

Suter, Alfred,  
200 Fifth Ave., New York, N.Y.

Taber Instrument Co.,  
257 Goundry St., N. Tonawanda,  
N. Y.

Abrasion Machine, Haven

Hamblett Machine Co.,  
Lawrence, Mass.

Abrasion Machine, Schopper

Testing Machines, Inc.,  
421 West 42nd St., New York,  
N.Y.

Abrasion Tester, Shawmut  
(carpets)

Shawmut Engineering Co.,  
195 Fresport St., Boston, Mass.

Abrasion Tester, Stoll-Quartermaster

American Instrument Co.,  
8030 Georgia Ave., Silver  
Spring, Md.

Abrasion Tester, Wyzenbeek

Wyzenbeek and Staff, Inc.,  
838 West Hubbard Ave.,  
Chicago 22, Ill.

Abrasion Testing Machine, Carpet,  
NBS

Frazier, Sherman W.,  
953 15th St., S. E.,  
Washington 3, D. C.

Abrasion Testing Machine, Schiefer

Frazier, Sherman W.,  
953 15th St., S. E.,  
Washington 3, D. C.

Philip Machine Shop,  
321 Cherry St., Carlisle, Pa.

Air Permeability Apparatus, NBS

American Instrument Co.,  
8030 Georgia Ave., Silver  
Spring, Md.

Frazier, Sherman W.,  
953 15th St., S. E.,  
Washington 3, D. C.

U. S. Testing Co., Inc.,  
1415 Park Ave., Hoboken, N. J.

Air Permeability Apparatus,  
Densometer

Gurley, W. and L. E.,  
Troy, N. Y.

Air Permeability Apparatus,  
Permeometer

Gurley, W. and L. E.,  
Troy, N. Y.

TEXTILE TESTING EQUIPMENT:

Dealer or Reference

Balances

Ainsworth, Wm. and Sons, Inc.,  
2151 Lawrence St., Denver,  
Colo.

Becker, Christian,  
92 Reade St., New York, N.Y.

Gurley, W. and L.E.,  
Troy, N. Y.

Suter, Alfred,  
200 Fifth Ave., New York, N. Y.

Thomas, Arthur H.,  
West Washington Square, P. O.  
Box 669, Philadelphia, Pa.

Thomas Balance Co.,  
818 20th St., Denver, Colo.

Torsion Balance Co.,  
92 Reade St., New York, N. Y.

Troemner, Henry,  
909 Arch St., Philadelphia, Pa.

Voland and Sons, Inc.,  
New Rochelle, N.Y.

Bursting Strength Tester, Ball-Burst

Scott Testers, Inc.,  
105 Blackstone St., Providence,  
R. I.

Bursting Strength Tester, Diaphragm

Perkins, B. F., and Son,  
Chicopee St., Holyoke, Mass.

Testing Machines, Inc.,  
421 West 42nd St., New York,  
N. Y.

Centrifuges  
(laundering)

American Laundry Machine Co.,  
Cincinnati, Ohio.

Ewing, Robert, and Sons, Inc.,  
Troy, N. Y.

General Electric Co.,  
Schenectady 5, N. Y.

Hurley Machine Co., Cermak Rd.  
and 54th Ave., Chicago, Ill.

Smith Drum Co., Philadelphia, Pa.

TEXTILE TESTING EQUIPMENT

Dealer or Reference

Chemical Laboratory Equipment and  
Reagents

Baker, J. T., Chemical Co.,  
Phillipsburg, N. J.

Burrell Technical Supply Co.,  
1942 Fifth Ave., Pittsburgh 19,  
Pa.

Central Scientific Co.,  
1700 Irving Park Rd., Chicago  
13, Ill.

Eimer and Amend,  
635 Greenwich St., New York, N.Y.

Fisher Scientific Co.,  
717 Forbes St., Pittsburgh, Pa.

Mallinckrodt Chemical Works,  
Mallinckrodt St., St. Louis 7,  
Mo.

Merck and Co.,  
Rahway, N. J.

Thomas, Arthur H., Co.,  
West Washington Square P.O.  
Box 669, Philadelphia, Pa.

Compression Meter, Dreby

Frazier, Sherman W.,  
953 15th St., S.E., Washington,  
3, D.C.

Compressometer  
(thickness, compressibility,  
compressional resilience)

American Instrument Co.,  
8030 Georgia Ave., Silver  
Spring, Md.

Frazier, Sherman W.,  
953 15th St., S.E., Washington,  
3, D.C.

Conditioning and Humidification  
Equipment

American Instrument Co.,  
8030 Georgia Ave., Silver  
Spring, Md.

Baldwin-Southwark Corp.,  
Paschall P.O., Philadelphia, Pa.

Carrier Corp.,  
Syracuse, N. Y.

Parks-Cramer Co., Fitchburg,  
Mass; Boston, Mass.; Charlotte,  
N. C.



TEXTILE TESTING EQUIPMENT

Crockmeter  
(colorfastness to rubbing)

Diamatrol  
(electronic micrometer for  
fineness of fiber)

Dies  
(for cutting samples)

Drapeometer

Fade-Ometer  
(colorfastness to light)

Fiber Extensometer, Sookne-Harris

Fibrograph  
(length and uniformity of cotton  
fibers)

Flammability Tester, A.A.T.C.C.

Flammability Tester, NBS Horizontal  
Rate-of-Burning

Flat Bed Press

Flexometer  
(stiffness, crease-resistance,  
flexural resilience)

Dealer or Reference  
Secretary, American Association  
of Textile Chemists and Color-  
ists, Lowell Textile Institute,  
Lowell, Mass.

Harrington Engineering Co.,  
405 Lexington Ave., New York, 17,  
N.Y.

Erkman, Handy, and Erkman,  
Chicago, Ill.

Fremont Tool and Die Co.,  
Fremont, Ohio.

Independent Die and Supply Co.,  
St. Louis, Mo.

Lonergan Die Co.,  
Chicago, Ill.

Mico Instrument Co.,  
10 Arrow St., Cambridge, Mass.

Atlas Electric Device Co.,  
383 West Superior St.,  
Chicago, Ill.

Harris Instruments, Inc.,  
1246 Taylor St., N.W., Washington,  
D.C.

Robertshaw-Fulton Controls Co.,  
Knoxville, Tenn.

U. S. Testing Co., Inc.,  
1415 Park Ave., Hoboken, N.J.

Industrial Tool and Engineering  
Co., 3432 Ravenswood Ave.,  
Chicago, Ill.

General Electric Co.,  
Schenectady 5, N. Y.

Young and Franklin Tool Works,  
107 North Franklin St.,  
Syracuse, N.Y.

American Instrument Co.,  
8030 Georgia Ave., Silver  
Spring, Md.

TEXTILE TESTING EQUIPMENT

Dealer or Reference

Folding Tester, Schopper  
(flexural fatigue)

Testing Machines, Inc.,  
421 West 42nd St., New York, N.Y.

Friction Meter, Dreby

Frazier, Sherman W.,  
953 15th St., S.E., Washington  
3, D. C.

Furnaces

Burrell Technical Supply Co.,  
1942 Fifth Ave., Pittsburgh 19,  
Pa.

Central Scientific Co.,  
1702 Irving Park Rd., Chicago 13,  
Ill.

Emerson Apparatus Co.,  
171 Tremont St., Melrose 76, Mass.

Fisher Scientific Co.,  
717 Forbes St., Pittsburgh, Pa.

Hosiery Testing Machine, NBS

Frazier, Sherman W.,  
953 15th St., S.E., Washington 3,  
D.C.

Hydrostatic Pressure Tester, Suter

Suter, Alfred,  
200 Fifth Ave., New York, N.Y.

Incline Plane Tester  
(stress-strain)

Scott Testers, Inc.,  
105 Blackstone St., Providence,  
R. I.

Launder-Ometer  
(colorfastness to laundering)

Atlas Electric Device Co.,  
383 West Superior St., Chicago,  
Ill.

Magnifiers and Microscopes

Bausch and Lomb Optical Co.,  
626 Saint Paul St., Rochester 2,  
N.Y.

Leitz, E., Inc.,  
730 Fifth Ave., New York, N. Y.

Spencer Lens Co.,  
25 Doat St., Buffalo 11, N.Y.

Zeiss, Inc.,  
485 Fifth Ave., New York, N.Y.

Micronaire, Sheffield  
(fineness of fiber)

Sheffield Corp.,  
Dayton 1, Ohio.

TEXTILE TESTING EQUIPMENT

Crockmeter  
(colorfastness to rubbing)

Diamatrol  
(electronic micrometer for  
fineness of fiber)

Dies  
(for cutting samples)

Drapeometer

Fade-Ometer  
(colorfastness to light)

Fiber Extensometer, Sookne-Harris

Fibrograph  
(length and uniformity of cotton  
fibers)

Flammability Tester, A.A.T.C.C.

Flammability Tester, NBS Horizontal  
Rate-of-Burning

Flat Bed Press

Flexometer  
(stiffness, crease-resistance,  
flexural resilience)

Dealer or Reference  
Secretary, American Association  
of Textile Chemists and Color-  
ists, Lowell Textile Institute,  
Lowell, Mass.

Harrington Engineering Co.,  
405 Lexington Ave., New York, 17,  
N.Y.

Erkman, Handy, and Erkman,  
Chicago, Ill.

Fremont Tool and Die Co.,  
Fremont, Ohio.

Independent Die and Supply Co.,  
St. Louis, Mo.

Loneragan Die Co.,  
Chicago, Ill.

Mico Instrument Co.,  
10 Arrow St., Cambridge, Mass.

Atlas Electric Device Co.,  
383 West Superior St.,  
Chicago, Ill.

Harris Instruments, Inc.,  
1246 Taylor St., N.W., Washington,  
D.C.

Robertshaw-Fulton Controls Co.,  
Knoxville, Tenn.

U. S. Testing Co., Inc.,  
1415 Park Ave., Hoboken, N.J.

Industrial Tool and Engineering  
Co., 3432 Ravenswood Ave.,  
Chicago, Ill.

General Electric Co.,  
Schenectady 5, N. Y.

Young and Franklin Tool Works,  
107 North Franklin St.,  
Syracuse, N.Y.

American Instrument Co.,  
8030 Georgia Ave., Silver  
Spring, Md.

TEXTILE TESTING EQUIPMENT

Dealer or Reference

Folding Tester, Schopper  
(flexural fatigue)

Testing Machines, Inc.;  
421 West 42nd St., New York, N.Y.

Friction Meter, Dreby

Frazier, Sherman W.,  
953 15th St., S.E., Washington  
3, D. C.

Furnaces

Burrell Technical Supply Co.,  
1942 Fifth Ave., Pittsburgh 19,  
Pa.

Central Scientific Co.,  
1702 Irving Park Rd., Chicago 13,  
Ill.

Emerson Apparatus Co.,  
171 Tremont St., Melrose 76, Mass.

Fisher Scientific Co.,  
717 Forbes St., Pittsburgh, Pa.

Hosiery Testing Machine, NBS

Frazier, Sherman W.,  
953 15th St., S.E., Washington 3,  
D.C.

Hydrostatic Pressure Tester, Suter

Suter, Alfred,  
200 Fifth Ave., New York, N.Y.

Incline Plane Tester  
(stress-strain)

Scott Testers, Inc.,  
105 Blackstone St., Providence,  
R. I.

Launder-Ometer  
(colorfastness to laundering)

Atlas Electric Device Co.,  
383 West Superior St., Chicago,  
Ill.

Magnifiers and Microscopes

Bausch and Lomb Optical Co.,  
626 Saint Paul St., Rochester 2,  
N.Y.

Leitz, E., Inc.,  
730 Fifth Ave., New York, N. Y.

Spencer Lens Co.,  
25 Doat St., Buffalo 11, N.Y.

Zeiss, Inc.,  
485 Fifth Ave., New York, N.Y.

Micronaire, Sheffield  
(fineness of fiber)

Sheffield Corp.,  
Dayton 1, Ohio.



TEXTILE TESTING EQUIPMENT

Dealer or Reference

Ovens

American Instrument Co.,  
8030 Georgia Ave., Silver Spring,  
Md.

Brabender Corp.,  
Rochelle Park, N. Y.

Central Scientific Co.,  
1702 Irving Park Rd., Chicago  
13, Ill.

Emerson Apparatus Co.,  
171 Tremont St., Melrose 76, Mass.

Saxl Instrument Co.,  
6 Linnean St., Cambridge 38, Mass.

Suter, Alfred,  
200 Fifth Ave., New York, N. Y.

Testing Machines, Inc.,  
421 West 42nd St., New York, N. Y.

Permeameter, Cambridge  
(gas permeability)

Cambridge Instrument Co.,  
Grand Central Terminal, New York,  
N. Y.

pH Meters

American Instrument Co.,  
8030 Georgia Ave., Silver Spring,  
Md.

Brown Instrument Co.,  
Philadelphia, Pa.

Central Scientific Co.,  
1702 Irving Park Rd., Chicago, Ill.

Coleman Electric Co.,  
319 Madison Ave., Maywood, Ill.

Leeds and Northrup Co.,  
Rockland and Stanton Ave.,  
Philadelphia, Pa.

National Technical Laboratories,  
814 Mission St., South Pasadena,  
Calif.

Thwing-Albert Instrument Co.,  
5335 Pulaski Ave., Philadelphia,  
Pa.

TEXTILE TESTING EQUIPMENT

Photographic Equipment

Dealer or Reference

Bausch and Lomb Optical Co.,  
626 Saint Paul St.,  
Rochester 2, N.Y.

Leitz, E., Inc.,  
730 Fifth Ave., New York, N.Y.

Spencer Lens Co.,  
25 Doat St., Buffalo 11, N.Y.

Suter, Alfred,  
200 Fifth Ave., New York, N.Y.

Zeiss, Inc.,  
485 Fifth Ave., New York, N.Y.

Pick-O-Meter  
(electronic thread counter)

Sjostrom Machine Co.,  
Lawrence, Mass.

Planoflex, Dreby  
(ease of distortion in plane  
of the fabric)

Frazier, Sherman W.,  
953 15th St., S.E., Washington 3,  
D.C.

Platinum Crucibles

Burrell Technical Supply Co.,  
1942 Fifth Ave., Pittsburgh 19,  
Pa.

Pulse Propagation Meter  
(instantaneous modulus of  
elasticity)

Fisher Scientific Co.,  
717 Forbes St., Pittsburgh, Pa.

The Magnetic Amplifier Corp.,  
4 Condon St., Waltham, Mass.

Rain Tester, du Pont  
(water repellency)

Mico Instrument Co.,  
10 Arrow St., Cambridge, Mass.

Reflectometer, Hunter Multi-Purpose  
(reflectance)

Gardner, Henry A., Laboratory,  
Inc., 4723 Elm St., Bethesda,  
Md.

Snag Tester, N.A.H.M.  
(Hosiery)

Frazier, Sherman W.,  
953 15th St., S.E., Washington  
3, D. C.

Sock Measuring Device, Schiefer  
(shrinkage)

Frazier, Sherman W.,  
953 15th St., S.E.,  
Washington 3, D.C.

TEXTILE TESTING EQUIPMENT

Dealer or Reference

Stiffness Testers

American Instrument Co.,  
8030 Georgia Ave., Silver Spring,  
Md.

Frazier, Sherman W.,  
953 15th St., S. E., Washington 3,  
D. C.

Gurley, W. and L. E.,  
Troy, N. Y.

Mico Instrument Co.,  
10 Arrow St., Cambridge, Mass.

Saxl Instrument Co.,  
6 Linnean St., Cambridge 38, Mass.

Testing Machines, Inc.,  
421 West 42nd St., New York, N.Y.

Tinius Olsen Testing Machine Co.,  
500 North 12th St., Philadelphia,  
Pa.

Tear Test Machine, Elmendorf

Thwing-Albert Instrument Co.,  
5335 Pulaski Ave., Philadelphia, Pa.

Tensile Testers

Baldwin Southwark Division,  
Baldwin Locomotive Works,  
940 Simpson St., Eddystone, Pa.

Dillon, W.C., and Co., Inc.,  
5410 West Harrison St.,  
Chicago 44, Ill.

Instron Engineering Co.,  
30 Allston St., Boston, Mass.

Perkins, B.F., and Son.,  
Chicopee St., Holyoke, Mass.

Saxl Instrument Co.,  
6 Linnean St., Cambridge 38, Mass.

Scott Testers, Inc.,  
105 Blackstone St., Providence, R.I.

Suter, Alfred,  
200 Fifth Ave., New York, N.Y.

Testing Machines, Inc.,  
421 West 42nd St., New York, N.Y.

TEXTILE TESTING EQUIPMENT

Dealer or Reference

Tensile Testers, continued

Thwing-Albert Instrument Co.,  
5335 Pulaski Ave., Philadelphia,  
Pa.

Tinius Olsen Testing Machine  
Co., 500 North 12th St.,  
Philadelphia, Pa.

Thermal Transmission Apparatus  
(Improvised)  
Thickness Gages

Consult REFERENCES for RP1055.

American Instrument Co.,  
8030 Georgia Ave., Silver  
Spring, Md.

Ames, B. C., Co.,  
12 Ames St., Waltham 54, Mass.

Federal Products Corp.,  
1140 Eddy St., Providence 1, R.I.

Frazier, Sherman W.,  
953 15th St., S.E., Washington  
3, D.C.

Glogau and Co.,  
1910-14 W. Birchwood Ave.,  
Chicago 26, Ill.

Precision Scientific Co.,  
1750 North Springfield Ave.,  
Chicago, Ill.

Pandall, Frank E.,  
243 Ash St., Waltham, Mass.

Standard Gage Co.,  
80 Parker Ave., Poughkeepsie, N.Y.

Suter, Alfred,  
200 Fifth Ave., New York, N.Y.

Testing Machines, Inc.,  
421 West 42nd St., New York, N.Y.

Thread Counters

Glogau and Co.,  
1219 Rand McNally Bldg.,  
Chicago 5, Ill.

Precision Scientific Co.,  
1750 North Springfield Ave.,  
Chicago, Ill.

Sjostrom Machine Co.,  
Lawrence, Mass.



TEXTILE TESTING EQUIPMENT

Dealer or Reference

Thread Counters, Continued

Suter, Alfred,  
200 Fifth Ave., New York, N.Y.

Testing Machines, Inc.,  
421 West 42nd St., New York, N.Y.

U. S. Testing Co.,  
1415 Park Ave., Hoboken, N. J.

Tuft Length Measuring Device  
(carpets)

Frazier, Sherman W.,  
953 15th St., S. E., Washington 3,  
D. C.

Twist Counters

Scott Testers, Inc.,  
105 Blackstone St., Providence 1,  
R. I.

Suter, Alfred,  
200 Fifth Ave., New York, N.Y.

Testing Machines, Inc.,  
421 West 42nd St., New York, N.Y.

U. S. Testing Co.,  
1415 Park Ave., Hoboken, N.J.

Washing Machines  
(shrinkage in laundering)

Akron Machinery and Engineering Co.,  
914 Miami St., Akron, Ohio

American Laundry Machine Co.,  
Cincinnati, Ohio.

Electric Household Utilities Corp.,  
Hurley Machine Division,  
Cermak Rd. and 54th Ave.,  
Chicago, Ill.

Ewing, Robert, and Sons, Inc.,  
Troy, N.Y.

Weather-Ometer

Atlas Electric Device Co.,  
383 West Superior St., Chicago 10,  
Ill.

Wrinkle Recovery Meter, Monsanto  
(crease-resistance)

Monsanto Chemical Co., Textile  
Chemicals Dept., 140 Federal St.,  
Boston 10, Mass.

Yarn Numbering Balance, Universal

Suter, Alfred,  
200 Fifth Ave., New York, N.Y.

TEXTILE TESTING EQUIPMENT

Dealer or Reference

Yarn Reels

Ainsworth, Wm., and Sons, Inc.,  
2151 Lawrence St., Denver, Colo.

Becker, Christian,  
92 Reade St., New York, N.Y.

Suter, Alfred,  
200 Fifth Ave., New York, N.Y.

Testing Machines, Inc.,  
421 West 42nd St., New York, N.Y.

REFERENCES

General Textile Testing Methods:

"Textiles; General Specifications, Test Methods." Supplement to Federal Specification CCC-T-191a. 57 pages. October 8, 1945. 10 cents.

"Textiles; General Specifications, Test Methods." Federal Specification CCC-T-191a. 21 pages. April 23, 1937. 5 cents.

"Textiles-Testing and Reporting." National Bureau of Standards Commercial Standard CS59-44. 45 pages. February 20, 1944. 10 cents.

"Methods of Analysis and of Reporting Fiber Composition of Textile Products." National Bureau of Standards Commercial Standard CS65-43. 18 pages. February 20, 1943. 5 cents.

"American Association of Textile Chemists and Colorists Year Book." Howes Publishing Co., Inc., No.1 Madison Ave., New York 10, N. Y. Annual. \$3.50.

"A.S.T.M. Standards on Textile Materials." Committee D-13 on Textile Materials. American Society for Testing Materials, 1916 Race St., Philadelphia 3, Pa. Annual. \$4.00.

"A.S.T.M. Standards. Part III: Nonmetallic Materials-Fuels, Petroleum, Aromatic Hydrocarbons, Soaps, Water, Textiles." American Society for Testing Materials, 1916 Race St., Philadelphia 3, Pa. Annual. \$6.00.

"Supplement to Book of A.S.T.M. Standards Including Tentatives. Part III-A: Nonmetallic Materials-Fuels, Petroleum, Aromatic Hydrocarbons, Soaps, Water, Textiles." American Society for Testing Materials, 1916 Race St., Philadelphia 3, Pa. Annual. \$4.00

National Bureau of Standards Research Papers:

RP1807. "Solution of Problem of Producing Uniform Abrasion and Its Application to the Testing of Textiles." H. F. Schiefer. Journal of Research of the National Bureau of Standards, Vol. 39, No.1, pp. 1-10; July 1947. Textile Research Journal, Vol. XVII, No.7, pp. 360-368; July 1947. 10 cents.

REFERENCES

National Bureau of Standards Research Papers, Continued:

RP1762. "Properties of Water-Repellent Fabrics." J. W. Rowen and D. Gagliardi. Journal of Research of the National Bureau of Standards, Vol. 38, No. 1, pp. 103-117; January 1947. American Dyestuff Reporter, Vol. 36, No. 18, pp. 533-540; September 22, 1947. 10 cents.

RP1710. "Dynamic Tensile Tests of Parachute Webbing." A. H. Stang, M. Greenspan, and S. B. Newman. Journal of Research of the National Bureau of Standards, Vol. 36, No. 4, pp. 411-419; April 1946. 5 cents.

RP1679. "Impact Strength of Nylon and of Sisal Ropes." S. B. Newman and H. G. Wheeler. Journal of Research of the National Bureau of Standards, Vol. 35, No. 5, pp. 417-431; November 1945. 10 cents.

RP1589. "A Study of the Properties of Household Blankets." H. F. Schiefer, H. T. Stevens, P. B. Mack, and P. M. Boyland. Journal of Research of the National Bureau of Standards, Vol. 32, No. 6, pp. 261-284; June 1944. 10 cents.

RP1562. "A Friction Meter for Determining the Coefficient of Kinetic Friction of Fabrics." E. C. Dreby. Journal of Research of the National Bureau of Standards, Vol. 31, No. 4, pp. 237-246; October 1943. 5 cents.

RP1546. "Autographic Load-Elongation Apparatus for Fibers." A. M. Sookne and H. A. Rutherford. Journal of Research of the National Bureau of Standards, Vol. 31, No. 1, pp. 25-31; July 1943. Rayon Textile Monthly, Vol. 24, pp. 52-53 and 58-59; July and August 1943. 10 cents.

RP1505. "Wear Testing of Carpets." H. F. Schiefer. Journal of Research of the National Bureau of Standards, Vol. 29, pp. 333-379; November 1942. 20 cents.

RP1485. "Note on Flexural Fatigue of Textiles." H. F. Schiefer and P. M. Boyland. Journal of Research of the National Bureau of Standards, Vol. 29, No. 1, pp. 69-71; July 1942. 10 cents.

RP1471. "An Improved Apparatus for Measuring the Air Permeability of Fabrics." H. F. Schiefer and P. M. Boyland. Journal of Research of the National Bureau of Standards, Vol. 28, No. 5, pp. 637-642; May 1942. 10 cents.

RP1434. "The Planoflex, a Simple Device for Evaluating the Pliability of Fabrics." E. C. Dreby. Journal of Research of the National Bureau of Standards, Vol. 27, No. 5, pp. 469-477; November 1941. 10 cents.



National Bureau of Standards Research Papers, Continued:

RP1422. "A Critical Study of Some Factors Affecting the Breaking Strength and Elongation of Cotton Yarns." H. F. Schiefer and R. S. Cleveland. Journal of Research of the National Bureau of Standards, Vol. 27, No. 3, pp. 325-342; September 1941. 10 cents.

RP1345. "A Multi-Purpose Photoelectric Reflectometer." R. S. Hunter. Journal of Research of the National Bureau of Standards, Vol. 25, pp. 581-618; November 1940. 10 cents.

RP1077. "Evaluation of Crease-Resistant Finishes for Fabrics." H. F. Schiefer. Journal of Research of the National Bureau of Standards, Vol. 20, pp. 241-252; February 1938. American Dyestuff Reporter, Vol. 27, pp. 22-30; January 10, 1938. 10 cents.

RP1055. "An Improved Apparatus for Measuring the Thermal Transmission of Textiles." R. S. Cleveland. Journal of Research of the National Bureau of Standards, Vol. 19, pp. 675-684; December 1937. 5 cents.

RP1047. "Evaluation of Crush-Resistant Finishing Treatments for Fabrics." H. F. Schiefer. Journal of Research of the National Bureau of Standards, Vol. 19, pp. 571-574; November 1937. American Dyestuff Reporter, Vol. 26, pp. 667-669; November 1, 1937. 5 cents.

RP561. "The Compressometer, an Instrument for Evaluating the Thickness, Compressibility, and Compressional Resilience of Textiles." H. F. Schiefer. Journal of Research of the National Bureau of Standards, Vol. 10, pp. 705-713; June 1933. Textile Research, Vol. 3, pp. 505-513; October 1933. Out of print.

RP555. "The Flexometer, an Instrument for Evaluating the Flexural Properties of Cloth and Similar Materials." H. F. Schiefer. Journal of Research of the National Bureau of Standards, Vol. 10, pp. 647-657; May 1933. Textile Research, Vol. 3, pp. 388-403; June 1933. Out of print.

National Bureau of Standards Circulars:

C455. "Flameproofing of Textiles." M. W. Sandholzer. 20 pages. August 23, 1943. 10 cents.

C429. "Photoelectric Tri-Stimulus Colorimetry with Three Filters." R. S. Hunter. 46 pages, 11 illustrations. July 30, 1942. 10 cents.

C423. "Microscopic Methods Used in Identifying Commercial Fibers." Thora M. Plitt. 26 pages. 1939. Out of print.



National Bureau of Standards Letter Circular:

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Non-Government Publications:

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