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

Abraser, Taber

Abrasion Machine, Haven

Abrasion Machine, Schopper

Abrasion Tester, Shawmut (carpets)

Abrasion Tester, Stoll-Quartermaster

Abrasion Tester, Wyzenbeek

Abrasion Testing Machine, Carpet, NBS

Abrasion Testing Machine, Schiefer

Air Permeability Apparatus, NBS

Air Permeability Apparatus, Densometer

Air Permeability Apparatus, Permeometer

Dealer or Reference

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

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

Hamblett Machine Co.,
Lawrence, Mass.

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

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

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

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

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

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

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

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.

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

Gurley, W. and L. E.,
Troy, N. Y.
TEXTILE TESTING EQUIPMENT

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.

Thorne Balance Co.,
213 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.

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

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

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

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.


Bursting Strength Tester, Ball-Burst

Bursting Strength Tester, Diaphragm

Centrifuges

(Laundering)
Chemical Laboratory Equipment and Reagents

Dealer or Reference

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,
035 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.

Frazier, Sherman W.,
253 15th St., S. E., Washington,
3, D. C.

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

Frazier, Sherman W.,
253 15th St., S. E., Washington,
3, D. C.

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

Baldwin-Southwark Corp.,

Carrier Corp.,
Syracuse, N. Y.

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

Compression Meter, Droby

Compressometer
(thickness, compressibility,
compressional resilience)

Conditioning and Humidification
Equipment
TEXTILE TESTING EQUIPMENT

Crockmeter
(colorfastness to rubbing)

Diamatrol
(electronic micrometer for fineness of fiber)

Die's
(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 Colorists, 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

Folding Tester, Schopper
(flexural fatigue)

Friction Meter, Dreby

Furnaces

Hosiery Testing Machine, NBS

Hydrostatic Pressure Tester, Suter

Incline Plane Tester
(stress-strain)

Launder-Ometer
(colorfastness to laundering)

Magnifiers and Microscopes

Micronaire, Sheffield
(fineness of fiber)

Dealer or Reference

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

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

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.

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

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

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

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

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.

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)
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Folding Tester, Schopper (flexural fatigue)

Friction Meter, Dreby

Furnaces

Hosiery Testing Machine, NBS

Hydrostatic Pressure Tester, Suter

Incline Plane Tester (stress-strain)

Launder-Ometer (colorfastness to laundering)

Magnifiers and Microscopes

Micronaire, Sheffield (fineness of fiber)

Dealer of Reference

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

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

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.

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

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

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

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

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.

Sheffield Corp.,
Dayton 1, Ohio.
TEXTILE TESTING EQUIPMENT

Ovens

Permeameter, Cambridge (gas permeability)

pH Meters

Dealer or Reference

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 Linneck St., Cambridge 38, Mass.

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

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

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

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

Brown Instrument Co.,

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.,

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

Thwing-Albert Instrument Co.,
TEXTILE TESTING EQUIPMENT

Photographic Equipment

Pick-O-Meter
(electronic thread counter)

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

Platinum Crucibles

Pulse Propogation Meter
(instantaneous modulus of elasticity)

Rain Tester, du Pont
(water repellency)

Reflectometer, Hunter Multi-Purpose
(reflectance)

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

Sock Measuring Device, Schiefer
(shrinkage)

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.

Sjostron Machine Co.,
Lawrence, Mass.

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

Burrell Technical Supply Co.,
1542 Fifth Ave.,Pittsburgh 19, Pa.

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

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

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

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

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

Frazier, Sherman W.,
953 15th St., S.E.,
Washington 3, D.C.
# Textile Testing Equipment

## Stiffness Testers

- **Tear Test Machine, Elmendorf**
- **Tensile Testers**

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Dealer or Reference</th>
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<tbody>
<tr>
<td>Stiffness Testers</td>
<td>American Instrument Co., 8030 Georgia Ave., Silver Spring, Md.</td>
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<tr>
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<td>Frazier, Sherman W., 953 15th St., S. E., Washington 3, D. C.</td>
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<td>Gurley, W. and L. E., Troy, N. Y.</td>
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<td>Mico Instrument Co., 10 Arrow St., Cambridge, Mass.</td>
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<td></td>
<td>Saxl Instrument Co., 6 Linnean St., Cambridge 38, Mass.</td>
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<td>Testing Machines, Inc., 421 West 42nd St., New York, N.Y.</td>
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<td>Baldwin Southwark Division, Baldwin Locomotive Works, 940 Simpson St., Eddystone, Pa.</td>
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<td>Dillon, W.C., and Co., Inc., 5410 West Harrison St., Chicago 44, Ill.</td>
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<td></td>
<td>Instron Engineering Co., 30 Allston St., Boston, Mass.</td>
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<td></td>
<td>Saxl Instrument Co., 6 Linnean St., Cambridge 38, Mass.</td>
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<td></td>
<td>Scott Testers, Inc., 105 Blackstone St., Providence, R.I.</td>
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<td>Suter, Alfred, 200 Fifth Ave., New York, N.Y.</td>
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<td>Testing Machines, Inc., 421 West 42nd St., New York, N.Y.</td>
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</table>
Tensile Testers, continued

Thermal Transmission Apparatus
(Improvised)
Thickneess Gages

Thread Counters

Dealer or Reference

Thwing-Albert Instrument Co.,

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

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 5, D.C.

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

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

Fandall, 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.

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

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

Sjostrom Machine Co.,
Lawrence, Mass.
<table>
<thead>
<tr>
<th>TEXTILE TESTING EQUIPMENT</th>
<th>Dealer or Reference</th>
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<td>Thread Counters, Continued</td>
<td>Suter, Alfred, New York, N.Y.</td>
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<td>Testing Machines, Inc., New York, N.Y.</td>
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<td>U. S. Testing Co., Hoboken, N.J.</td>
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<tr>
<td>Tuft Length Measuring Device (carpets)</td>
<td>Frazier, Sherman W., Washington, D.C.</td>
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<tr>
<td>Twist Counters</td>
<td>Scott Testers, Inc., Providence, R.I.</td>
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<td></td>
<td>Suter, Alfred, New York, N.Y.</td>
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<tr>
<td>Washing Machines (shrinkage in laundering)</td>
<td>Testing Machines, Inc., New York, N.Y.</td>
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<td></td>
<td>U. S. Testing Co., Hoboken, N.J.</td>
</tr>
<tr>
<td>Weather-Ometer</td>
<td>Akron Machinery and Engineering Co.,</td>
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<td></td>
<td>Cincinnati, Ohio.</td>
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<td>Electric Household Utilities Corp.,</td>
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<td></td>
<td>Chicago, Ill.</td>
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<td></td>
<td>Ewing, Robert, and Sons, Inc., Troy, N.Y.</td>
</tr>
<tr>
<td>Yarn Numbering Balance, Universal</td>
<td>Suter, Alfred, New York, N.Y.</td>
</tr>
</tbody>
</table>
TEXTILE TESTING EQUIPMENT

Yarn Reels

Dealer or Reference

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:


National Bureau of Standards Research Papers:

REFERENCES

National Bureau of Standards Research Papers, Continued:


National Bureau of Standards Research Papers, Continued:


National Bureau of Standards Circulars:


National Bureau of Standards Letter Circular:


Non-Government Publications:


