

Test Equipment Suppliers for TAPPI Test Methods

TAPPI does not sanction the companies cited in this list. TAPPI provides this information as a service to its members and the general public. This information was obtained initially from a survey of industry test equipment suppliers; it is updated as new information is provided by the test method reviewers or the suppliers. To be included in the current supplier list, please email the Standards Department at standards@tappi.org, or call +1-770-209-7276, or fax a memo to that department's attention at +1-770-446-6947.

Suppliers on the list must confirm their listing on a regular basis. Failure to respond to requests for updated information will lead to being deleted from the list. If your company has been deleted from the list, you must contact standards@tappi.org to be reinstated.

NOTE 1: Only TAPPI Test Methods with known equipment suppliers are listed. Any errors or unlisted suppliers may be brought to the attention of the TAPPI Quality and Standards Department.

NOTE 2: This list was updated May 8, 2012.

METHOD	EQUIPMENT	COMPANY
T 200 Laboratory beating of pulp (Valley beater method)	Complete Equipment Complete Equipment Complete Equipment Complete Equipment Complete Equipment	Kalamazoo Paper Chemicals OpTest Equipment Inc. Regmed Indústria Técnica de Precisão Ltda Testing Machines Inc. Thwing-Albert Instrument Company Voith Paper
T 205 Forming handsheets for physical test of pulp	Complete Equipment Complete Equipment Complete Equipment Complete Equipment Complete Equipment Complete Equipment Complete Equipment	Adirondack Machine Corporation Kalamazoo Paper Chemicals Kalamazoo Paper Chemicals OpTest Equipment Inc. Regmed Indústria Técnica de Precisão Ltda. Technidyne Corporation Techpap, Inc. Thwing-Albert Instrument Company
T 210 Weighing, sampling, and testing pulp for moisture	Complete Equipment Controlled Testing Environment Complete Equipment	Kalamazoo Paper Chemicals Parameter Generation & Control, Inc. Testing Machines Inc.
T 211 Ash in wood and pulp	Complete Equipment	Kalamazoo Paper Chemicals
T 213 Dirt in pulp	Complete Equipment PAPRICAN Micro-Scanner	Kalamazoo Paper Chemicals OpTest Equipment Inc.

	Large Sheet In-Speck-Tor Complete Equipment Complete Equipment Complete Equipment Complete Equipment Complete Equipment	OpTest Equipment Inc. Optomax Regmed Indústria Técnica de Precisão Ltda Techpap, Inc. Testing Machines Inc Thwing-Albert Instrument Company
T 218 Forming handsheets for reflectance testing of pulp (Buchner Funnel procedure)	Reflectance testers Complete Equipment Complete Equipment	Technidyne Corporation Testing Machines Inc. Thwing-Albert Instrument Company
T 220 Physical testing of pulp handsheets	Complete Equipment Micrometers Complete Equipment Complete Equipment Complete Equipment Complete Equipment Controlled Testing Environment Complete Equipment Retention aid testing Complete Equipment Complete Equipment	AMETEK-Chatillon E.J. Cady & Company IGT Testing Systems Instron Kalamazoo Paper Chemicals Mono Research Laboratories Inc. OpTest Equipment Inc. Parameter Generation & Control, Inc. Regmed Indústria Técnica de Precisão Ltda. Techpap, Inc. Testing Machines Inc. Thwing-Albert Instrument Company
T 221 Drainage time of pulp	Complete Equipment Intelligent Drainage Analyzer Complete Equipment Complete Equipment	Kalamazoo Paper Chemicals OpTest Equipment Inc. Testing Machines Inc. Thwing-Albert Instrument Company
T 226 Specific external surface of pulp	Intelligent Drainage Analyzer	OpTest Equipment Inc.
T 227 Freeness of pulp	Complete Equipment Intelligent Drainage Analyzer Complete Equipment Complete Equipment Complete Equipment	Kalamazoo Paper Chemicals OpTest Equipment Inc. Regmed Indústria Técnica de Precisão Ltda. Testing Machines Inc. Thwing-Albert Instrument Company
T 230 Viscosity of pulp (capillary viscometer method)	Complete Equipment Complete Equipment CED solution	Cannon Instrument Company OpTest Equipment Inc. Reagents, Inc.
T 231 Zero-span breaking strength of pulp (dry zero-span tensile)	Complete Equipment	AMETEK-Chatillon

	Complete Equipment Complete Equipment Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment Tensile Tester	Instron Kalamazoo Paper Chemicals Mono Research Laboratories Inc. Parameter Generation and Control Regmed Indústria Técnica de Precisão Ltda. Testing Machines Inc. Tinius Olsen Testing Machine Co., Inc.
T 232 Fiber length of pulp by projection	Fiber Quality Analyzer Complete Equipment Fiber analyzer	OpTest Equipment Inc. Regmed Indústria Técnica de Precisão Ltda Techpap, Inc.
T 233 Fiber length of pulp by classification	Complete Equipment Fiber Quality Analyzer Complete Equipment Fiber analyzer Complete Equipment	Kalamazoo Paper Chemicals OpTest Equipment Inc. Regmed Indústria Técnica de Precisão Ltda Techpap, Inc. Testing Machines Inc.
T 234 Coarseness of pulp fibers	Fiber Quality Analyzer Complete Equipment Classifier, Blotter Paper	OpTest Equipment, Inc Regmed Indústria Técnica de Precisão Ltda Testing Machines Inc.
T 236 Kappa number of pulp	Complete Equipment	OpTest Equipment Inc.
T 240 Consistency (concentration) of pulp suspensions	Complete Equipment	Testing Machines Inc.
T 252 pH and electrical conductivity of hot water extracts of pulp, paper, and paperboard	Partial Equipment	Paul N. Gardner Co., Inc.
T 254 Cupriethylenediamine disperse viscosity of pulp (falling ball method)	Viscosity Standard Oils	Baxter Diagnostics, Inc.
T 258 Basic density and moisture content of pulpwood	Complete Equipment	Thwing-Albert Instrument Company
T 261 Fines fraction of paper stock by wet screening	Complete Equipment Britt Jar and Parts Complete Equipment	Paper Chemistry Laboratory, Inc. Paper Research Materials Inc. Testing Machines Inc.
T 262 Preparation of mechanical pulps for testing	Complete Equipment	Testing Machines Inc.
T 271 Fiber length of pulp and paper by automated optical analyzer	Fiber Quality Analyzer Complete Equipment Fiber analyzer	OpTest Equipment Inc. Regmed Indústria Técnica de Precisão Ltda Techpap, Inc.

T 272	Forming handsheets for reflectance testing of pulp (sheet machine procedure)	Complete Equipment Complete Equipment Reflectance testers Complete Equipment Complete Equipment	Kalamazoo Paper Chemicals Regmed Indústria Técnica de Precisão Ltda. Technidyne Corporation Testing Machines Inc. Thwing-Albert Instrument Company
T 274	Laboratory screening of pulp (MasterScreen-type instrument)	Complete Equipment	Regmed Indústria Técnica de Precisão Ltda.
T 275	Screening of Pulp (Somerville-Type Equipment)	Complete Equipment Complete Equipment Complete Equipment Complete Equipment Complete Equipment	Kalamazoo Paper Chemicals OpTest Equipment Inc. Regmed Indústria Técnica de Precisão Ltda Testing Machines Inc. Thwing-Albert Instrument Company
T 277	Macro stickies content in pulp: the “pick-up” method	Complete Equipment Coated paper/Silicone paper	Optomax Voith Paper Inc.
T 278	Pulp screening (valley-type screening device)	Complete Equipment Complete Equipment	Testing Machines Inc. Voith Paper Inc.
T 401	Fiber analysis of paper and paperboard	Fiber Quality Analyzer Fiber analyzer	OpTest Equipment Inc. Techpap, Inc.
T 402	Standard conditioning and testing atmospheres for paper, board, pulp handsheets, and related products	Controlled Testing Environment	Parameter Generation & Control, Inc.
T 403	Bursting strength of paper	Complete Equipment Burst strength tester Burst testers Complete Equipment Complete Equipment Burst Testers Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment Complete Equipment Complete Equipment	AMETEK-Chatillon Custom Scientific Instruments, Inc. E.J. Cady & Company Kalamazoo Paper Chemicals Instron Mullen Testers OpTest Equipment Inc. Parameter Generation and Control Regmed Indústria Técnica de Precisão Ltda. Technidyne Corporation Testing Machines Inc. Thwing-Albert Instrument Company
T 410	Grammage of paper and paperboard (weight per unit area)	Complete Equipment Controlled Testing Environment	Kalamazoo Paper Chemicals Parameter Generation and Control

	Complete Equipment Complete Equipment Complete Equipment	Regmed Indústria Técnica de Precisão Ltda. Testing Machines Inc. Thwing-Albert Instrument Company
T 411 Thickness (caliper) of paper, paperboard, and combined board	Complete Equipment Thickness gauge Complete Equipment Complete Equipment Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment Complete Equipment Complete Equipment Complete Equipment Complete Equipment	B.C. Ames Inc. Custom Scientific Instruments, Inc. E.J. Cady & Company IGT Testing Systems Kalamazoo Paper Chemicals Parameter Generation and Control Paul N. Gardner Co., Inc. Regmed Indústria Técnica de Precisão Ltda. Standard Scientific LLC Technidyne Corporation Testing Machines Inc. Thwing-Albert Instrument Company
T 412 Moisture in paper and paperboard	Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment Complete Equipment Complete Equipment	Kalamazoo Paper Chemicals Parameter Generation & Control, Inc. Paul N. Gardner Co., Inc. Regmed Indústria Técnica de Precisão Ltda. Techpap, Inc. Testing Machines Inc.
T 413 Ash in paper and paperboard	Complete Equipment Complete Equipment	Kalamazoo Paper Chemicals Testing Machines Inc.
T 414 Internal tearing resistance of paper (Elmendorf-type method)	Pendulum tear tester Complete Equipment Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment Complete Equipment	Custom Scientific Instruments, Inc. Kalamazoo Paper Chemicals OpTest Equipment Inc. Parameter Generation and Control Regmed Indústria Técnica de Precisão Ltda. Testing Machines Inc. Thwing-Albert Instrument Company
T 423 Folding endurance of paper (Schopper-type tester)	Complete Equipment Controlled Testing Environment Complete Equipment	OpTest Equipment Inc. Parameter Generation and Control Testing Machines Inc.
T 425 Opacity of paper (15°/diffuse illuminant A, 89% reflectance backing and paper backing)	Complete Equipment Complete Equipment	Kalamazoo Paper Chemicals Paul N. Gardner Co., Inc.

	Complete Equipment Complete Equipment Opacity meter Complete Equipment	Technidyne Corporation Technidyne Corporation Testing Machines Inc. Thwing-Albert Instrument Company
T 437 Dirt in paper and paperboard	Complete Equipment PAPRICAN Micro-Scanner Complete Equipment Complete Equipment Complete Equipment Complete Equipment	Kalamazoo Paper Chemicals OpTest Equipment Inc. Optomax Techpap, Inc. Testing Machines Inc. Thwing-Albert Instrument Company
T 441 Water absorptiveness of sized nonbibulous paper and paperboard (Cobb test)	Complete Equipment Complete Equipment Complete Equipment Complete Equipment	Gurley Precision Instruments IGT Testing Systems Kalamazoo Paper Chemicals OpTest Equipment Inc.
	Controlled Testing Environment Complete Equipment Water absorption apparatus Complete Equipment Complete Equipment	Parameter Generation & Control, Inc. Regmed Indústria Técnica de Precisão Ltda. Techpap, Inc. Testing Machines Inc. Thwing-Albert Instrument Company
T 448 Water vapor transmission rate of sheet materials at standard temperature and humidity	Complete Equipment Controlled Testing Environment Vapor Permeability Test Dish Complete Equipment	Kalamazoo Paper Chemicals Parameter Generation & Control, Inc. Regmed Indústria Técnica de Precisão Ltda. Testing Machines Inc. Thwing-Albert Instrument Company
T 452 Brightness of pulp, paper, and paperboard (directional reflectance at 457 nm)	Complete Equipment Complete Equipment Partial Equipment Brightness testers Complete Equipment	Kalamazoo Paper Chemicals Paul N. Gardner Co., Inc. Techpap, Inc. Technidyne Corporation Testing Machines, Inc.
T 458 Surface wettability of paper (angle of contact method)	Complete Equipment Complete Equipment Complete Equipment Complete Equipment	Diversified Enterprises Kalamazoo Paper Chemicals Paul N. Gardner Co., Inc. Thwing-Albert Instrument Company
T 459 Surface strength of paper (wax pick test)	Complete Equipment	Kalamazoo Paper Chemicals

	Complete Equipment Controlled Testing Environment Complete Equipment	OpTest Equipment Inc. Parameter Generation and Control Testing Machines Inc.
T 460 Air resistance of paper (Gurley Method)	Complete Equipment Complete Equipment Complete Equipment Complete Equipment Complete Equipment Complete Equipment Complete Equipment	Gurley Precision Instruments Kalamazoo Paper Chemicals OpTest Equipment Inc. Regmed Indústria Técnica de Precisão Ltda. Technidyne Corporation Testing Machines Inc. Thwing-Albert Instrument Company
T 461 Flame resistance of treated paper and paperboard	Flammability tester Controlled Testing Environment Complete Equipment	Custom Scientific Instruments, Inc. Parameter Generation and Control Standard Scientific LLC
T 464 Water vapor transmission rate of paper and paperboard at high temperature and humidity	Controlled Testing Environment Partial Equipment Test Dish	Parameter Generation & Control, Inc. Regmed Indústria Técnica de Precisão Ltda. Testing Machines Inc.
T 476 Abrasion loss of paper and paperboard	Complete Equipment Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment Complete Equipment	Kalamazoo Paper Chemicals OpTest Equipment Inc. Parameter Generation and Control Paul N. Gardner Co., Inc. Taber Industries Testing Machines Inc.
T 479 Smoothness of paper (Bekk method)	Complete Equipment Complete Equipment Controlled Testing Environment Topographical smoothness Complete Equipment	AMETEK-Chatillon OpTest Equipment Inc. Parameter Generation and Control Techpap, Inc. Testing Machines Inc.
T 480 Specular gloss of paper and paperboard at 75°	Complete Equipment Glossmeters, 60° Geometry Bench Glossmeters Microgloss Glossmeters Glossmeter Complete Equipment	Kalamazoo Paper Chemicals Paul N. Gardner Co., Inc. Sheen Instruments, Inc. Sheen Instruments, Inc. Technidyne Corporation Testing Machines Inc.

T 489 Stiffness of paper and paperboard (Taber-type stiffness tester)	Complete Equipment Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment Complete Equipment Complete Equipment Complete Equipment	AMETEK-Chatillon Kalamazoo Paper Chemicals Parameter Generation and Control Regmed Indústria Técnica de Precisão Ltda. Paul N. Gardner Co., Inc. Taber Industries Testing Machines Inc. Thwing-Albert Instrument Company
T 494 Tensile breaking properties of paper and paperboard (using constant rate of elongation apparatus)	Tensile Testing Machine Complete Equipment Complete Equipment Complete Equipment Complete Equipment Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment Complete Equipment Complete Equipment Complete Equipment	AMETEK-Chatillon Instron Kalamazoo Paper Chemicals Mono Research Laboratories Inc. Regmed Indústria Técnica de Precisão Ltda. OpTest Equipment Inc. Parameter Generation and Control Paul N. Gardner Co., Inc. Technidyne Corporation Testing Machines Inc. Tinius Olsen Testing Machine Co., Inc. Thwing-Albert Instrument Company
T 500 Book bulk and bulking number of paper	Book Bulk and Bulk Number Tester Controlled Testing Environment Complete Equipment	Custom Scientific Instruments, Inc. Parameter Generation & Control, Inc. Standard Scientific LLC
T 507 Grease resistance of flexible packaging materials	Complete Equipment	Kalamazoo Paper Chemicals
T 511 Folding endurance of paper (MIT tester)	Complete Equipment Complete Equipment Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment Complete Equipment	AMETEK-Chatillon Kalamazoo Paper Chemicals OpTest Equipment Inc. Parameter Generation and Control Testing Machines Inc. Tinius Olsen Testing Machine Co., Inc. Thwing-Albert Instrument Company
T 512 Creasing of flexible packaging material paper specimens for testing	Complete Equipment Complete Equipment	Kalamazoo Paper Chemicals Regmed Indústria Técnica de Precisão Ltda
T 515 Visual grading and color matching of paper	Controlled Testing Environment	Parameter Generation and Control

	Color Matching Booths Complete Equipment	Paul N. Gardner Co., Inc. Testing Machines, Inc.
T 516 Envelope seal, seam, and window patch testing	Controlled Testing Environment	Parameter Generation & Control, Inc.
T 519 Diffuse opacity of paper (<i>d/0</i> paper backing)	Complete Equipment Complete Equipment Complete Equipment Complete Equipment Complete Equipment	Kalamazoo Paper Chemicals OpTest Equipment Inc. Technidyne Corporation Testing Machines Inc. Thwing-Albert Instrument Company
T 523 Dynamic measurement of water vapor transfer through sheet materials	Water Vapor Transmission Tester Controlled Testing Environment Complete Equipment Complete Equipment	Custom Scientific Instruments, Inc. Parameter Generation and Control Standard Scientific LLC Testing Machines Inc.
T 524 <i>L, a, b, 45°/0°</i> colorimetry of white and near-white paper and paperboard	Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment Complete Equipment	Kalamazoo Paper Chemicals Parameter Generation and Control Paul N. Gardner Co., Inc. Technidyne Corporation Testing Machines, Inc.
T 525 Diffuse brightness of pulp (<i>d/0°</i>)	Complete Equipment Complete Equipment Spectrophotometers Partial Equipment Complete Equipment Complete Equipment	Kalamazoo Paper Chemicals OpTest Equipment Inc. Paul N. Gardner Co., Inc. Techpap, Inc. Technidyne Corporation Testing Machines Inc.
T 526 Blister resistance of coated paper in heatset printing	Partial Equipment	Kalamazoo Paper Chemicals
T 527 Color of paper and paperboard in CIE <i>Y; x, y, Y</i> , dominant wavelength and excitation purity	Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment Complete Equipment	OpTest Equipment Inc. Parameter Generation and Control Paul N. Gardner Co., Inc. Technidyne Corporation Testing Machines Inc.
T 529 Surface pH measurement of paper	Complete Equipment	Paul N. Gardner Co., Inc.
T 536 Resistance of paper to passage of air (high pressure Gurley Method)	Complete Equipment Complete Equipment	Gurley Precision Instruments Kalamazoo Paper Chemicals

	Controlled Testing Environment Complete Equipment Complete Equipment Complete Equipment	Parameter Generation and Control Technidyne Corporation Testing Machines Inc. Thwing-Albert Instrument Company
T 537 Dirt count in paper and paperboard (optical character recognition - OCR)	PAPRICAN Micro-Scanner Complete Equipment Complete Equipment Complete Equipment Complete Equipment	OpTest Equipment Inc. Optomax Techpap, Inc. Testing Machines Inc. Thwing-Albert Instrument Company
T 538 Roughness of paper and paperboard (Sheffield Method)	Complete Equipment Complete Equipment Topographical and optical apparatus Complete Equipment Complete Equipment Complete Equipment	Gurley Precision Instruments Kalamazoo Paper Chemicals Techpap, Inc. Technidyne Corporation Testing Machines Inc. Thwing-Albert Instrument Company
T 541 Internal bond strength of paperboard (z-direction tensile)	Complete Equipment Z-direction Tensile Tester Complete Equipment Complete Equipment Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment Complete Equipment Tensile Tester Complete Equipment	AMETEK-Chatillon Custom Scientific Instruments, Inc. Instron Kalamazoo Paper Chemicals Mono Research Laboratories Inc. Parameter Generation & Control, Inc. Regmed Indústria Técnica de Precisão Ltda. Standard Scientific LLC Testing Machines Inc. Tinius Olsen Testing Machine Co., Inc. Thwing-Albert Instrument Company
T 543 Stiffness of paper (Gurley type stiffness tester)	Complete Equipment Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment	Gurley Precision Instruments Kalamazoo Paper Chemicals Parameter Generation & Control, Inc. Testing Machines, Inc. Thwing-Albert Instrument Company
T 545 Cross-machine grammage profile measurement (gravimetric method)	Controlled Testing Environment	Parameter Generation and Control
T 546 Machine direction grammage variation measurement (gravimetric method)	Controlled Testing Environment Complete Equipment	Parameter Generation & Control, Inc. Instron
T 547 Air permeability of paper and paperboard (Sheffield-type)	Complete Equipment	Kalamazoo Paper Chemicals

	Controlled Testing Environment Complete Equipment Complete Equipment Complete Equipment	Parameter Generation & Control, Inc. Technidyne Corporation Testing Machines Inc. Thwing-Albert Instrument Company
T 549 Coefficient of static and kinetic friction of uncoated writing and printing paper by use of the horizontal plane method	Complete Equipment Static and Kinetic Coefficient Tester Complete Equipment Complete Equipment Complete Equipment Complete Equipment Complete Equipment	AMETEK-Chatillon Custom Scientific Instruments, Inc. Instron Kalamazoo Paper Chemicals Mono Research Laboratories Inc. OpTest Equipment Inc. Standard Scientific LLC
	Complete Equipment Complete Equipment Complete Equipment Complete Equipment	Paul N. Gardner Co., Inc. Regmed Indústria Técnica de Precisão Ltda. Testing Machines Inc. Thwing-Albert Instrument Company
T 551 Thickness of paper and paperboard (soft platen method)	Micrometers Complete Equipment Controlled Testing Environment Ultrasonic Test System Complete Equipment	E.J. Cady & Company Kalamazoo Paper Chemicals Parameter Generation & Control, Inc. SoniSys, Inc. Testing Machines Inc.
T 552 Determination of wetting tension of polyolefin films and coated surfaces via the Mayer rod technique	Metering rods and reagents Controlled Testing Environment Complete Equipment Mayer Rod, Clipboard	Diversified Enterprises Parameter Generation & Control, Inc. Paul N. Gardner Co., Inc. Testing Machines Inc.
T 555 Roughness of paper and paperboard (Print Surf method)	Complete Equipment Complete Equipment Controlled Testing Environment Topographical and optical apparatus Complete Equipment Complete Equipment	Kalamazoo Paper Chemicals OpTest Equipment Inc. Parameter Generation & Control, Inc. Techpap, Inc. Technidyne Corporation Testing Machines Inc.
T 556 Bending resistance of paper and paperboard (Lorentzen & Wettre type tester)	Complete Equipment Complete Equipment	OpTest Equipment Inc. Paul N. Gardner Co., Inc.

T 559 Grease resistance test for paper and paperboard	Controlled Testing Environment	Parameter Generation & Control, Inc.
T 563 Equivalent black area (EBA) and count of visible dirt in pulp, paper and paperboard by image analysis	Paprican Micro-Scanner Large Sheet In-Speck-Tor Complete Equipment Complete Equipment	OpTest Equipment Inc. OpTest Equipment Inc. Optomax Testing Machines Inc.
T 566 Bending resistance (stiffness) of paper (Taber-type tester in 0 to 10 Taber stiffness unit configuration)	Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment Complete Equipment Complete Equipment	Kalamazoo Paper Chemicals Parameter Generation and Control Paul N. Gardner Co., Inc. Taber Industries Testing Machines Inc. Thwing-Albert Instrument Company
T 568 Physical area of sub-visible contraries in pulp, paper and paperboard by image analysis	Complete Equipment PAPRICAN Ink-Scanner	Optomax OpTest Equipment Inc.
T 569 Internal bond strength (Scott type)	Complete Equipment Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment Complete Equipment	Kalamazoo Paper Chemicals OpTest Equipment Inc. Parameter Generation and Control Regmed Indústria Técnica de Precisão Ltda. Testing Machines Inc. Thwing-Albert Instrument Company
T 577 Score bend test	Complete Equipment	Thwing-Albert Instrument Company
T 648 Viscosity of coating clay slurry	Complete Equipment Viscometers Complete Equipment Complete Equipment	Kalamazoo Paper Chemicals Kaltec Scientific, Inc. Paul N. Gardner Co., Inc. Testing Machines, Inc.
T 653 Specular gloss of paper and paperboard at 20°	Complete Equipment Complete Equipment Controlled Testing Environment Glossmeters, 75° Geometry Complete Equipment Complete Equipment	Kalamazoo Paper Chemicals Kalamazoo Paper Chemicals Parameter Generation & Control, Inc. Paul N. Gardner Co., Inc. Technidyne Corporation Testing Machines Inc.
T 676 Viscosity of starch and starch products	Complete Equipment	Kalamazoo Paper Chemicals

	Complete Equipment	Paul N. Gardner Co., Inc.
T 698 Determination of wetting tension of polyethylene and polypropylene films and coatings (Modified visking analytical technique)	Complete Equipment Complete Equipment	AMETEK-Chatillon Diversified Enterprises
T 800 Drum test for fiberboard shipping containers (revolving hexagonal drum)	Controlled Testing Environment	Parameter Generation & Control, Inc.
T 802 Drop test for fiberboard shipping containers	Complete drop testers Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment	L.A.B. Equipment Lansmont Corporation Parameter Generation & Control, Inc. Regmed Indústria Técnica de Precisão Ltda. Testing Machines, Inc.
T 803 Puncture test of containerboard	Complete Equipment Complete Equipment Complete Equipment Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment	AMETEK-Chatillon Instron Kalamazoo Paper Chemicals Mono Research Laboratories Inc. OpTest Equipment Inc. Parameter Generation and Control Testing Machines Inc. Thwing-Albert Instrument Company
T 804 Compression test of fiberboard shipping containers	Complete Equipment Complete Equipment Complete Equipment Complete Equipment Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment Complete Equipment Compression Tester	AMETEK-Chatillon Instron Kalamazoo Paper Chemicals Lansmont Corporation Mono Research Laboratories Inc. OpTest Equipment Inc. Parameter Generation & Control, Inc. Regmed Indústria Técnica de Precisão Ltda. Testing Machines Inc. Thwing-Albert Instrument Company Tinius Olsen Testing Machine Co., Inc.
T 807 Bursting strength of paperboard and linerboard	Complete Equipment Burst testers Complete Equipment Complete Equipment Burst Testers Complete Equipment Controlled Testing Environment	AMETEK-Chatillon E.J. Cady & Company Instron Kalamazoo Paper Chemicals Mullen Testers OpTest Equipment Inc. Parameter Generation & Control, Inc.

	Complete Equipment Complete Equipment Complete Equipment Complete Equipment	Regmed Indústria Técnica de Precisão Ltda. Technidyne Corporation Testing Machines Inc. Thwing-Albert Instrument Company
T 808 Flat crush test of corrugated board (flexible beam method)	Complete Equipment Complete Equipment Complete Equipment Controlled Testing Environment Specimen Cutter Complete Equipment Complete Equipment Compression Machine	AMETEK-Chatillon Instron Mono Research Laboratories Inc. Parameter Generation and Control Regmed Indústria Técnica de Precisão Ltda Testing Machines Inc. Thwing-Albert Instrument Company Tinius Olsen Testing Machine Co., Inc.
T 809 Flat crush of corrugating medium (CMT test)	Complete Equipment Complete Equipment Complete Equipment Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment Complete Equipment Compression Machine	AMETEK-Chatillon Instron Kalamazoo Paper Chemicals Mono Research Laboratories Inc. OpTest Equipment Inc. Parameter Generation & Control, Inc. Regmed Indústria Técnica de Precisão Ltda. Testing Machines Inc. Thwing-Albert Instrument Company Tinius Olsen Testing Machine Co., Inc.
T 810 Burst strength of corrugated and solid fiberboard	Complete Equipment Burst testers Complete Equipment Complete Equipment Burst Testers Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment Complete Equipment	AMETEK-Chatillon E.J. Cady & Company Instron Kalamazoo Paper Chemicals Mullen Testers OpTest Equipment Inc. Parameter Generation & Control, Inc. Regmed Indústria Técnica de Precisão Ltda. Testing Machines Inc. Thwing-Albert Instrument Company
T 811 Edgewise compressive strength of corrugated fiberboard (short column test)	Complete Equipment Complete Equipment Complete Equipment Complete Equipment Controlled Testing Environment Complete Equipment	AMETEK-Chatillon Instron Kalamazoo Paper Chemicals Mono Research Laboratories Inc. Parameter Generation & Control, Inc. Regmed Indústria Técnica de Precisão Ltda.

	Complete Equipment Complete Equipment Compression Tester	Testing Machines Inc. Thwing-Albert Instrument Company Tinius Olsen Testing Machine Co., Inc.
T 812 Ply separation of solid and corrugated fiberboard (wet)	Complete Equipment Complete Equipment Complete Equipment Complete Equipment Complete Equipment	AMETEK-Chatillon Instron Regmed Indústria Técnica de Precisão Ltda. Testing Machines, Inc. Thwing-Albert Instrument Company
T 815 Coefficient of static friction (slide angle) of packaging and packaging materials (including shipping sack papers, corrugated and solid fiberboard) (inclined plane method)	Static Friction and Coefficient Tester Complete Equipment Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment	Custom Scientific Instruments, Inc. Kalamazoo Paper Chemicals OpTest Equipment Inc. Parameter Generation & Control, Inc. Standard Scientific LLC Testing Machines Inc.
T 818 Ring crush of paperboard	Complete Equipment Complete Equipment Complete Equipment Complete Equipment Complete Equipment Controlled Testing Environment Specimen Holder Complete Equipment Complete Equipment Complete Equipment Compression Machine	AMETEK-Chatillon Instron Kalamazoo Paper Chemicals Mono Research Laboratories Inc. OpTest Equipment Inc. Parameter Generation & Control, Inc. Regmed Indústria Técnica de Precisão Ltda Techpap, Inc. Testing Machines Inc. Thwing-Albert Instrument Company Tinius Olsen Testing Machine Co., Inc.
T 820 Flexural stiffness of corrugated board	Complete Equipment Complete Equipment Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment	AMETEK-Chatillon Instron Mono Research Laboratories Inc. Parameter Generation and Control Testing Machines Inc. Thwing-Albert Instrument Company
T 821 Pin adhesion of corrugated board by selective separation	Complete Equipment Complete Equipment Complete Equipment	Instron Kalamazoo Paper Chemicals Mono Research Laboratories Inc.

	Complete Equipment Complete Equipment Complete Equipment	Regmed Indústria Técnica de Precisão Ltda. Testing Machines Inc. Thwing-Albert Instrument Company
T 822 Ring crush of paperboard (rigid support method)	Complete Equipment Complete Equipment Complete Equipment Complete Equipment Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment Complete Equipment Complete Equipment Compression machine	AMETEK-Chatillon Instron Kalamazoo Paper Chemicals Mono Research Laboratories Inc. OpTest Equipment Inc. Parameter Generation and Control Regmed Indústria Técnica de Precisão Ltda. Techpap, Inc. Testing Machines Inc. Thwing-Albert Instrument Company Tinius Olsen Testing Machine Co., Inc.
T 824 Fluted edge crush of corrugated medium	Complete Equipment Complete Equipment Complete Equipment Controlled Testing Environment Medium Fluter/Specimen Holder Complete Equipment Complete Equipment Compression machine	AMETEK-Chatillon Instron Mono Research Laboratories Inc. Parameter Generation and Control Regmed Indústria Técnica de Precisão Ltda. Testing Machines Inc. Thwing-Albert Instrument Company Tinius Olsen Testing Machine Co., Inc.
T 825 Flat crush test of corrugated board (rigid support method)	Complete Equipment Complete Equipment Complete Equipment Complete Equipment Sample Cutter Controlled Testing Environment Complete Equipment Complete Equipment Complete Equipment	AMETEK-Chatillon Instron Kalamazoo Paper Chemicals Mono Research Laboratories Inc. OpTest Equipment Inc. Parameter Generation & Control, Inc. Regmed Indústria Técnica de Precisão Ltda. Testing Machines, Inc. Thwing-Albert Instrument Company
T 826 Short span compressive strength of containerboard	Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment	OpTest Equipment Inc. Parameter Generation and Control Testing Machines Inc. Thwing-Albert Instrument Company
T 829 Score quality test	Force Gauge/Load Cell Score Ratio Tester	AMETEK-Chatillon Custom Scientific Instruments, Inc.

	Complete Equipment Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment Complete Equipment Force Gauge/Load Cell	Instron Mono Research Laboratories Inc. Parameter Generation & Control, Inc. Regmed Indústria Técnica de Precisão Ltda Standard Scientific LLC Techpap, Inc. Testing Machines Inc.
T 831 Water absorption of corrugating medium: water drop penetration test	Controlled Testing Environment	Parameter Generation & Control, Inc.
T 834 Determination of paperboard roll hardness	Complete Equipment Complete Equipment Complete Equipment	Kalamazoo Paper Chemicals Regmed Indústria Técnica de Precisão Ltda. Testing Machines Inc.
T 835 Water absorption of corrugating medium: water drop absorption test	Controlled Testing Environment	Parameter Generation & Control, Inc.
T 836 Bending stiffness, four point method	Complete Equipment Complete Equipment Complete Equipment Controlled Testing Environment Complete Equipment Complete Equipment	AMETEK-Chatillon Instron Mono Research Laboratories Inc. Parameter Generation and Control Testing Machines Inc. Thwing-Albert Instrument Company
T 838 Edge crush test using neckdown	Complete Equipment Complete Equipment Complete Equipment Complete Equipment Complete Equipment	AMETEK-Chatillon Instron Mono Research Laboratories Inc. Regmed Indústria Técnica de Precisão Ltda. Testing Machines Inc. Thwing-Albert Instrument Company
T 839 Edgewise compressive strength of corrugated fiberboard using the clamp method (short column test)	Test Fixture Complete Equipment Complete Equipment Complete Equipment	Kalamazoo Paper Chemicals Regmed Indústria Técnica de Precisão Ltda. Testing Machines Inc. Thwing-Albert Instrument Company
T 840 Testing adhesives used in glued lap joints of corrugated fiberboard containers	Complete Equipment Complete Equipment Complete Equipment Complete Equipment	AMETEK-Chatillon Mono Research Laboratories Inc. Testing Machines Inc. Thwing-Albert Instrument Company

T 843 Fluted edge crush of corrugating medium (rigid support method)

Complete Equipment
Controlled Testing Environment
Complete Equipment
Complete Equipment
Complete Equipment

Instron
Parameter Generation and Control
Regmed Indústria Técnica de Precisão Ltda
Testing Machines Inc.
Thwing-Albert Instrument Company

T 1015 Fiber Glass Mat Uniformity (Visual Defects)

Complete Equipment
Complete Equipment

Regmed Indústria Técnica de Precisão Ltda
Techpap, Inc.