

# Numerical Listing

NOTE: This list was updated November 11, 2024.

Information in parentheses explains status prior to issuance of current version or prior to withdrawal.

## Fibrous Materials and Pulp Testing

T 1 wd-75.....	(T 1 os-50-combined with T 207).....	Water Solubility of Wood
T 2 wd-72.....	(T 2 m-60-combined with T 209).....	Methoxyl Groups in Wood
T 3 wd-77.....	(T 3 m-60-combined with T 208).....	Moisture in Wood Chips and Sawdust by Toluene Distillation
T 4 wd-75.....	(T 4 os-59-combined with T 212).....	One Percent Caustic Soda Solubility of Wood
T 5 wd-73.....	(T 5 os-73-replaced by T 204).....	Dichloromethane Solubles in Wood, Alcohol-Benzene Solubles in Wood
T 6 wd-73.....	(T 6 os- 59-replaced by T 204).....	Alcohol-Benzene Solubility of Wood
T 7 wd-85.....	(T 7 os-74 replaced by T 268).....	Weight-Volume Measurement of Pulpwood
T 8 wd-82.....	(T 8 os-75-replaced by T 263).....	Identification of Wood and Fibers from Conifers
T 9 wd-75.....	(T 9 m-54-became Useful Method 249).....	Holocellulose in Wood
T 10 wd-78.....	(T 10 ts-47-reissued as T 259).....	Species Identification of Nonwoody Vegetable Fibers
T 11 wd-76.....	(T 11 os-74-replaced by T 257).....	Sampling and Preparing Wood for Analysis
T 12 wd-82.....	(T 12 os-75-replaced by T 264).....	Preparation of Wood for Chemical Analysis (Including Procedures for Removal of Extractive and Determination of Moisture Content)
T 13 wd-74.....	(T 13 os-54-combined with T 222).....	Lignin in Wood
T 14 wd-82.....	(T 14 os-74-replaced by T 265).....	Natural Dirt in Wood Chips for Sulfite Pulping
T 15 wd-80.....	(T 15 os-58-combined with T 211).....	Ash in Wood
T 16 wd-74.....	(T 16 ts-61-became Useful Method 21).....	Sieve Analysis of Pulpwood Chips
T 17 wd-70.....	(T 17 m-55).....	Cellulose in Wood
T 18 wd-76.....	(T 18 os-53-replaced by T 258).....	Specific Gravity (Density) and Moisture Content of Pulpwood
T 19 wd-71.....	(T 19 m-50-combined with T 223).....	Pentosans in Wood
T 20 wd-85.....	(T 20 os-72-replaced by T 267).....	Compression Wood Identification in Pulpwood
T 21 wd-82.....	(T 21 os-74-became Useful Method 23).....	Bulk Density of Wood Chips
*T 200 sp-21.....	.....	Laboratory Beating of Pulp (Valley Beater Method)
T 201 wd-76.....	(T 201 su-70-became Useful Method 249).....	Cellulose in Pulp (Cross and Bevan Method)
T 202 wd-75.....	(T 202 os-69-replaced with T 253).....	Chlorine Number of Pulp
T 203 cm-22.....	.....	Alpha-, Beta-, and Gamma-Cellulose in Pulp
T 204 cm-17.....	.....	Solvent Extractives of Wood and Pulp
*T 205 sp-24.....	.....	Forming Handsheets for Physical Tests of Pulp
T 206 wd-71.....	(T 206 os-63).....	Cuprammonium Disperse Viscosity of Pulp
T 207 cm-22.....	.....	Water Solubility of Wood and Pulp
T 208 wd-98.....	.....	Moisture in Wood, Pulp, Paper and Paperboard by Toluene Distillation
T 209 wd-79.....	(T 209 su-72).....	Methoxyl Content of Pulp and Wood
T 210 cm-13.....	.....	Sampling and Testing Wood Pulp Shipments for Moisture
*T 211 om-22.....	.....	Ash in Wood, Pulp, Paper, and Paperboard: Combustion at 525°C
*T 212 om-22.....	.....	One Percent Sodium Hydroxide Solubility of Wood and Pulp
*T 213 om-21.....	.....	Dirt in Pulp – Chart Method
T 214 wd-76.....	(T 214 su 71-became Useful Method 251).....	Permanganate Number of Pulp
T 215 wd-75.....	(T 215 os 70-combined with T 430).....	Copper Number of Pulp
T 216 wd-72.....	(T 216 os 47-combined with T 442).....	Spectral Reflectivity and Color of Pulp
T 217 wd-77.....	(T 217 os-48-combined with T 452).....	Brightness of Pulp
*T 218 sp-23.....	.....	Forming Handsheets for Reflectance Testing of Pulp (Büchner Funnel Procedure)
T 219 wd-75.....	(T 219 os-54-replaced with T 253).....	Bleach Requirement of Pulp
*T 220 sp-21.....	.....	Physical Testing of Pulp Handsheets
T 221 cm-22.....	.....	Drainage Time of Pulp
T 222 om-21.....	.....	Acid-Insoluble Lignin in Wood and Pulp

T 223 cm-23.....	Pentosans in Wood and Pulp
T 224 wd-77..... (T 224 su-78-became Useful Method 253).....	Laboratory Processing of Pulp(Ball or Pebble Mill Method)
T 225 wd-82..... (T 225 os-75 became Useful Method 258).....	Laboratory Processing of Pulp (Kollergang Method)
T 226 cm-23.....	Specific External Surface of Pulp
T 227 om-21.....	Freeness of Pulp (Canadian Standard Method)
T 228 wd-97.....	Microbiological Examination of Pulp in Sheet Form
T 229 wd-76..... (T 229 ts-45-became Useful Method 254).....	Water-Soluble Sulfates and Chloride in Pulp
*T 230 om-23.....	Viscosity of pulp (capillary viscometer method)
T 231 cm-22.....	Zero-Span Breaking Strength of Pulp (Dry Zero-Span Tensile)
T 232 cm-23.....	Fiber Length of Pulp by Projection
T 233 cm-15.....	Fiber Length of Pulp by Classification
T 234 cm-24.....	Coarseness of Pulp Fibers
T 235 cm-22.....	Alkali Solubility of Pulp at 25°C
*T 236 om-22.....	Kappa Number of Pulp
T 237 cm-22.....	Carboxyl Content of Pulp
T 238 wd-75..... (T 238 su-63).....	Cellulose Chain Length Uniformity by Fractional Precipitation of Cellulose Nitrates
T 239 wd-74..... (T 239 su-67-became Useful Method 252).....	Resistance of Pulp or Paper Stock to Disintegration (Standard rpg)
*T 240 om-24.....	Consistency (Concentration) of Pulp Suspensions
T 241 wd-97..... (T 241cm-83).....	Manganese in Pulp
T 242 wd-97..... (T 242 cm-83).....	Iron in Pulp
T 243 wd-97..... (T 243 cm-83).....	Copper in Pulp
T 244 cm-23.....	Acid-Insoluble Ash in Wood, Pulp, Paper, and Paperboard
T 245 cm-21.....	Silicates and Silica in Pulp (Wet Ash Method)
T 246 wd-96..... (T 246 om-89).....	Foreign Particulate Matter in Pulp by Transmitted Light
T 247 wd-98.....	Calcium in Pulp
*T 248 sp-21.....	Laboratory Beating of Pulp (PFI Mill Method)
T 249 cm-21.....	Carbohydrate Composition of Extractive-Free Wood and Wood Pulp by Gas-Liquid Chromatography
T 250 wd-96..... (T 250 cm-85).....	Chromatographic Analysis of Purified Pulp
T 251 wd-96..... (T 251 cm-85).....	Air Permeability of Porous Papers, Fabrics and Pulp Handsheets
*T 252 om-22.....	pH and Electrical Conductivity of Hot Water Extracts of Pulp, Paper and Paperboard
T 253 wd-98.....	Hypo Number of Pulp
T 254 cm-22.....	Cupriethylenediamine Disperse Viscosity of Pulp (Falling Ball Method)
T 255 cm-21.....	Water-Soluble Sulfates in Pulp and Paper
T 256 cm-21.....	Water-Soluble Chlorides in Pulp and Paper
T 257 sp-21.....	Sampling and Preparing Wood for Analysis
T 258 om-21.....	Basic Density and Moisture Content of Pulpwood
*T 259 om-21.....	Species Identification of Nonwood Plant Fibers
T 260 wd-98.....	Test to Evaluate the Aging Properties of Bleached Chemical Pulps
T 261 cm-22.....	Fines Fraction by Weight of Paper Stock by Wet Screening
*T 262 sp-22.....	Preparation of Mechanical Pulps for Testing
*T 263 sp-23.....	Identification of Wood and Fibers from Conifers
T 264 cm-22.....	Preparation of Wood for Chemical Analysis

**\*Indicates that the standard has been approved as an American National Standard**

§Former Wax Testing Method: available from the American Society for Testing and Materials (ASTM)

om- Official Test Method (formerly os-Official Standard m- Official Standard)

pm- Provisional Test Method (formerly su-Suggested Method ts-Tentative Standard)

cm- Classical Method

wd- Withdrawn Method (available upon request from the TAPPI Quality and Standards Department)

sp- Standard Practice (formerly rp - Recommended Practice)

T 265 cm-22.....	Natural Dirt in Wood Chips
*T 266 om-24.....	Determination of Sodium, Calcium, Copper, Iron and Manganese in Pulp and Paper by Atomic Absorption Spectroscopy
T 267 cm-15.....	Compression Wood Identification in Pulpwood
*T 268 om-22.....	Weight-Volume Measurement of Pulpwood
T 269 wd-98.....	Comprehensive Retention Evaluation for Paper Machines
T 270 wd-96..... (T 270 pm-88).....	Flake Content of Pulp
*T 271 om-23.....	Fiber Length of Pulp and Paper by Automated Optical Analyzer Using Polarized Light
*T 272 sp-21.....	Forming Handsheets for Reflectance Testing of Pulp (Sheet Machine Procedure)
T 273 wd-01.....	Wet Zero-Span Tensile Strength of Pulp
*T 274 sp-22.....	Laboratory Screening of Pulp (MasterScreen-Type Instrument)
*T 275 sp-23.....	Screening of Pulp (Somerville-type Equipment)
T 276 wd-05..... (Last version – T 276 pm-99).....	Degree of Fiber Bonding Index by Short-Span Tensile Testing
T 277 sp-21.....	Macro Stickies Content in Pulp: the “Pickup“ Method
T 278 sp-21.....	Pulp Screening (Valley-Type Screening Device)
T 279 wd-06.....	Effective Fiber Length Index by Zero/Short-Span Tensile Testing
T 280 wd-06.....	Acetone Extractives of Wood and Pulp
*T 281 sp-22.....	Open Drum Washer Mat Sampling Technique
*T 282 om-23.....	Hexeneuronic acid content of chemical pulp

## Paper and Paperboard Testing

T 400 sp-22.....	Sampling and Accepting a Single Lot of Paper, Paperboard, Containerboard, or Related Product
*T 401 om-20.....	Fiber Analysis of Paper and Paperboard
T 402 sp-21.....	Standard Conditioning and Testing Atmospheres for Paper, Board, Pulp Handsheets, and Related Products
*T 403 om-22.....	Bursting Strength of Paper
T 404 wd-03.....	Tensile Breaking Strength and Elongation of Paper and Paperboard (Using Pendulum-Type Tester)
T 405 wd-07.....	Petroleum Wax in Impregnated Papers
*T 406 om-23.....	Reducible Sulfur in Paper and Paperboard
T 407 wd-71..... (T 407 m-49-became Useful Method 542).....	Amount of Coating on Mineral-Coated Paper
T 408 cm-22.....	Rosin in Paper and Paperboard
*T 409 sp-23.....	Machine Direction of Paper and Paperboard
*T 410 om-23.....	Grammage of paper and paperboard (weight per unit area)
*T 411 om-21.....	Thickness (Caliper) of Paper, Paperboard, and Combined Board
T 412 om-22.....	Moisture in Pulp, Paper and Paperboard
*T 413 om-22.....	Ash in Wood, Pulp, Paper and Paperboard: Combustion at 900°C
T 414 om-21.....	Internal Tearing Resistance of Paper (Elmendorf-Type Method)
T 415 wd-76..... (T 415 os-68-became Useful Method 490).....	Casein and Soya Protein in Paper (Qualitative)
T 416 wd-39..... (T 416 m-35-combined with T 408).....	Rosin in Paper (Qualitative)
T 417 wd-76..... (T 417 os-68-became Useful Method 567).....	Proteinaceous Nitrogenous Materials in Paper (Qualitative)
T 418 cm-17.....	Organic Nitrogen in Paper and Paperboard
*T 419 om-22.....	Starch in Paper
T 420 wd-34..... (T 420 m-30-combined with T 419).....	Starch in Paper (Quantitative)
*T 421 cm-22.....	Qualitative (Including Optical Microscopic) Analysis of Mineral Filler and Mineral Coating of Paper
T 422 wd-73..... (T 422 su-67).....	Quantitative Determination of Mineral Filler and Mineral Coating of Paper
T 423 cm-21.....	Folding Endurance of Paper (Schopper Type Tester)
T 424 wd-70.....	Contrast Gloss of Paper 57.5°
T 425 om-21.....	Opacity of Paper (15/d geometry, Illuminant A/2°, 89% Reflectance Backing and Paper Backing)
T 426 wd-70.....	Bulking Thickness of Paper and Paperboard

T 427 wd-96..... (T 427 om-86).....	Saturating Property of Roofing and Flooring Felt (Kerosine Number)
*T 428 om-21.....	Hot Water Extractable Acidity or Alkalinity of Paper
T 429 cm-23.....	Alpha-Cellulose in Paper
T 430 cm-22.....	Copper Number of Pulp, Paper, and Paperboard
T 431 cm-22.....	Ink Absorbency of Blotting Paper
T 432 cm-21.....	Water Absorbency of Bibulous Papers
T 433 wd-22.....	Water Resistance of Sized Paper and Paperboard (Dry Indicator Method)
T 434 cm-23.....	Acid-Soluble Iron in Paper
T 435 om-22.....	Hydrogen Ion Concentration (pH) of Paper Extracts (Hot Extraction Method)
T 436 wd-76..... (T 436 ts-64-became Useful Method 571).....	Arsenic in Paper and Paperboard
T 437 om-21.....	Dirt in Paper and Paperboard
T 438 wd-23.....	Zinc and Cadmium in Paper
T 439 wd-78..... (T 439 m-60-combined with T 627).....	Titanium Pigments in Paper
T 440 wd-83..... (Became Useful Method 585).....	Alkali-Staining Number of Paper
*T 441 om-24.....	Water Absorptiveness of Sized (Non-bibulous) Paper, Paperboard, and Corrugated Fiberboard (Cobb Test)
T 442 wd-02.....	Spectral Reflectance Factor Transmittance, and Color of Paper and Pulp (Polychromatic Illumination)
T 443 wd-43..... (T 443 sm-39).....	Water Permeability of Paper and Paper Boards(Ground Glass Method)
*T 444 sp-21.....	Silver Tarnishing by Paper and Paperboard
T 445 wd-84..... (T 445 su-57-became Useful Method 589).....	Identification of Specks and Spots in Paper
T 446 wd-70..... (T 446 os-48).....	Moldability (Crease Retention) of Wrapping Paper
T 447 wd-59..... (T 447 m-59-became Useful Method 549).....	Moisture Expansivity of Paper
T 448 om-21.....	Water Vapor Transmission Rate of Paper and Paperboard at 23°C and 50% RH
*T 449 om-22.....	Bacteriological Examination of Paper and Paperboard
T 450 wd-70..... (T 450 os-44).....	Pentosans in Paper
T 451 wd-01.....	Flexural Properties of Paper (Clark Stiffness)
*T 452 om-23.....	Brightness of Pulp, Paper, and Paperboard (Directional Reflectance at 457 nm)
*T 453 sp-24.....	Effect of Dry Heat on Properties of Paper and Board
T 454 om-21.....	Turpentine Test for Voids in Glassine and Greaseproof Papers
*T 455 sp-24.....	Identification of Wire Side of Paper
*T 456 om-22.....	Wet Tensile Breaking Strength of Paper and Paperboard (“Wet Tensile Strength”)
T 457 wd-76..... (T 457 os-46-combined with T 404).....	Stretch of Paper and Paperboard
T 458 cm-24.....	Surface Wettability of Paper (Angle of Contact Method)
*T 459 om-21.....	Surface Strength of Paper (Wax Pick Test)
T 460 om-21.....	Air Resistance of Paper (Gurley Method)
T 461 cm-22.....	Flame Resistance of Treated Paper and Paperboard
T 462 om-16.....	Castor-Oil Penetration Test for Paper
T 463 wd-75..... (T 463 su-70-became Useful Method 562).....	Adhesiveness of Gummed Paper Tape
*T 464 om-22.....	Water Vapor Transmission Rate of Paper and Paperboard at High

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Temperature and Humidity

T 465 sp-21 .....	Static Creasing of Paper for Water Vapor Transmission Tests
T 466 wd-99.....	Degree of Curl and Sizing of Paper
T 467 wd-72..... (T 467 m-48) .....	Paraffin Wax Absorptiveness of Paper
T 468 wd-76..... (T 468 m-60-reissued as T 255 and T 256).....	Water-Soluble Sulfates and Chlorides in Paper and Paperboard
T 469 wd-70..... (T 469 sm-55).....	Flexural Resistance and Deflection of Fiberboard for Bookbinding
T 470 wd-96..... (T 470 om-89).....	Edge Tearing Resistance of Paper (Edge-Tear Stirrup Method)
T 471 wd-73..... (T 471 m-47-became Useful Method 572) .....	Testing Analytical Filter Papers
T 472 wd-76..... (T 472 su-68-reclassified as T 818).....	Compression Resistance of Paperboard (Ring Crush Test)
T 473 wd-71..... (T 473 su-63) .....	Insect Resistance of Packaging Materials
T 474 wd-70..... (T 474 m-47-replaced with T 495) .....	Bending Quality of Paperboard
T 475 wd-00.....	Bleed Resistance of Asphalted Paper at 65°C (150°F)
T 476 om-21.....	Abrasion Loss of Paper and Paperboard (Taber-Type Method)
T 477 wd-76..... (T 477 m-47-became Useful Method 565) .....	Blocking Resistance of Paper and Flexible Materials
T 478 wd-69..... (T 478 sm-60).....	Ink-Erasing Quality of Paper
T 479 cm-21.....	Smoothness of Paper (Bekk Method)
*T 480 om-20.....	Specular Gloss of Paper and Paperboard at 75 Degrees
T 481 wd-72..... (T 481 sm-60).....	Fiber Orientation in Paper (Zero-Span Tensile Strength)
T 482 wd-73..... (T 482 m-52-became Useful Method 573) .....	Water Vapor Permeability of Sheet Materials at 0°F
T 483 cm-23.....	Odor of Packaging Materials
T 484 wd-78..... (T 484 m-58-combined with T 208) .....	Moisture in Paper and Paperboard by Toluene Distillation
T 485 wd-70..... (T 485 m-53) .....	Pinholes in Glassine and Greaseproof Papers
T 486 wd-75..... (T 486 su-69) .....	Blood Resistance of Butchers Wrapping Paper
T 487 wd-05 .....	(Last version – T 487 pm-99)..... Fungus Resistance of Paper and Paperboard
T 488 wd-73..... (T 488 ts-65-combined with T 421).....	Microscopical Identification of Fillers in Paper
*T 489 om-22.....	Bending Resistance (Stiffness) of Paper and Paperboard (Taber-type Tester in Basic Configuration)
T 490 wd-76..... (T 490 sm-58-became Useful Method 574).....	Smoothness of Paper Under 3 psi Clamping Pressure
*T 491 om-23.....	Water Immersion Number of Paperboard
T 492 wd-86..... (T 492 pm-76-became Useful Method 596) .....	Water Absorption of Paperboard (Non-Bibulous)
T 493 cm-23.....	Identification and Determination of Melamine Resin in Paper
*T 494 om-22.....	Tensile Properties of Paper and Paperboard (Using Constant Rate of Elongation Apparatus)
T 495 wd-23.....	Bending Number of Paperboard
*T 496 sp-23 .....	(T 496 cm-85)..... Specimen preparation for cross directional internal tearing resistance for paper, paperboard and related materials
T 497 wd-85.....	Surface Wax on Waxed Paper or Paperboard
T 498 wd-96..... (T 498 cm-85).....	Softness of Sanitary Tissues
T 499 wd-85..... (T 499 su-64-became Useful Method 591).....	Surface Strength of Paper (IGT Tester)
T 500 cm-21.....	Book Bulk and Bulking Number of Paper
T 501 wd-76 .....	(T 501 su-67-combined with T 504)..... Wetting Shipping Sack Paper for Testing
T 502 cm-21.....	Equilibrium Relative Humidity of Paper and Paperboard
T 503 wd-95.....	Coefficient of Static Friction of Shipping Sack Papers (Inclined Plane Method)
T 504 cm-21.....	Glue in Paper (Qualitative and Quantitative Determination)
T 505 wd-74..... (T 505 su-67-combined with T 504).....	Qualitative Identification of Glue in Paper
T 506 wd-83..... (Became Useful Method 584).....	Internal Bond Strength of Paper and Paperboard as Measured by Z-directional Tensile Test
T 507 cm-22.....	Grease Resistance of Flexible Packaging Materials
T 508 wd-85..... (T 508 os-77-combined with T 515).....	Illuminants for Visual Grading and Color Matching of Paper (Wave Lengths 400-700 nm only)
T 509 om-22.....	Hydrogen Ion Concentration (pH) of Paper Extracts (Cold Extraction Method)
T 510 wd-76..... (T 510 su-69-became Useful Method 575).....	Water Resistance of Adhesive Bond in Laminated Paper and Paperboard
*T 511 om-20.....	Folding Endurance of Paper (MIT Tester)
T 512 sp-21 .....	Creasing of Flexible Packaging Material Paper Specimens for

Testing

T 513 wd-79..... (T 513 su-69-became Useful Method 579).....	Water Repellency of Paper and Boards
T 514 wd-99.....	Surface Strength of Coated Paperboard
*T 515 om-24.....	Visual Grading and Color Matching of Paper
T 516 cm-23.....	Envelope Seal, Seam, and Window Patch Testing
T 517 wd-96..... (T 517 om-89).....	Dynamic Strength of Flexible Barrier Material Seals
T 518 wd-75..... (T 518 su-69-became Useful Method 556).....	Static Load Strength of Flexible Barrier Material Seals
*T 519 om-22.....	Diffuse Opacity of Paper ( <i>d/0</i> paper backing)
T 520 cm-22.....	Curl of Gummed Flat Papers
T 521 wd-96.....	Blocking Resistance of Gummed Flat Papers
T 522 wd-90..... (T 522 om-85).....	Transparency of Paper
T 523 wd-12..... (T 523 om-06).....	Dynamic Measurement of Water Vapor Transfer Through Sheet Materials
*T 524 om-20.....	Color of paper and paperboard (45/0, C/2)
*T 525 om-22.....	Diffuse Brightness of Paper, Paperboard and Pulp ( <i>d/0</i> ) – Ultraviolet Level C
T 526 cm-17.....	Blister Resistance of Coated Paper in Heatset Printing
*T 527 om-24.....	Color of paper and paperboard ( <i>d/0</i> , C/2)
T 528 wd-08.....	Solvent Holdout of Electrophotographic Base Paper
T 529 om-21.....	Surface pH Measurement of Paper
*T 530 om-24.....	Size Test for Paper by Ink Resistance (Hercules-Type Method)
T 531 wd-12.....	Starch Consumption in Corrugated Board (Enzymatic/Gravimetric Method)
T 532 wd-12.....	Starch Consumption in Corrugated Board (Enzymatic/Colorimetric Method)
T 533 wd-85..... (T 533 pm-76-became Useful Method 590).....	Creasing of Paperboard for Water Vapor Transmission Rate (WVTR) Testing
*T 534 om-22.....	Brightness of Clay and Other Mineral Pigments ( <i>d/0</i> )
T 535 wd-03.....	Bending Stiffness of Paper and Paperboard (Resonance Length Method)
*T 536 om-22.....	Resistance of Paper to Passage of Air (High-Pressure Gurley Method)
T 537 om-21.....	Dirt Count in Paper and Paperboard (Optical Character Recognition – OCR)
T 538 om-22.....	Roughness of Paper and Paperboard (Sheffield Method)
T 539 wd-01.....	Determination of Polyethylene (Resin) Adhesion to Porous Substrates
T 540 wd-00.....	Determination of Thermoplastic Coating Adhesion to Nonporous Substrates
T 541 om-21.....	Internal Bond Strength of Paperboard (Z-Direction Tensile)
T 542 wd-95.....	Coefficient of Friction (Angle of Slide) of Packaging Papers (Inclined Plane Method)
T 543 om-22.....	Bending Resistance of Paper (Gurley-Type Tester)
T 544 cm-19.....	Aging of Paper and Board with Moist Heat
*T 545 om-23.....	Cross-Machine Grammage Profile Measurement (Gravimetric Method)
*T 546 om-22.....	Machine Direction Grammage Variation Measurement

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cm- Classical Method

wd- Withdrawn Method (available upon request from the TAPPI Quality and Standards Department)

sp- Standard Practice (formerly rp - Recommended Practice)

	(Gravimetric Method)
*T 547 om-23.....	Air Permeance of Paper and Paperboard (Sheffield Method)
T 548 wd-99.....	Coefficient of Static Friction of Uncoated Writing and Printing Paper by Use of the Inclined Plane Method
*T 549 om-20.....	Coefficients of Static and Kinetic Friction of Uncoated Writing and Printing Paper by Use of the Horizontal Plane Method
*T 550 om-22.....	Determination of Equilibrium Moisture in Pulp, Paper and Paperboard for Chemical Analysis
*T 551 om-23.....	Thickness of Paper and Paperboard (Soft Platen Method)
T 552 wd-14.....	Determination of Wetting Tension of Polymeric Films and Coated Surfaces via the Mayer Rod Technique
*T 553 om-20.....	Alkalinity of Paper as Calcium Carbonate (Alkaline Reserve of Paper)
T 554 wd-01.....	X-Ray Analysis of Paper and Related Materials
*T 555 om-22.....	Roughness of Paper and Paperboard (Print-Surf Method)
T 556 om-21.....	Bending Resistance of Paper And Paperboard by Single-Point Bending Methods
T 557 wd-04.....	Water Vapor Transmission Rate Through Plastic Film and Sheeting Using a Modulated Infrared Sensor
*T 558 om-20.....	Surface Wettability and Absorbency of Sheeted Materials Using an Automated Contact Angle Tester
T 559 cm-22.....	Grease Resistance Test for Paper and Paperboard
T 560 om-21.....	CIE Whiteness and Tint of Paper and Paperboard ( <i>d</i> /0 geometry, <i>C</i> /2 Illuminant/Observer)
T 561 wd-03.....	Sorptive Rate and Capacity of Bibulous Paper Products Using Gravimetric Principles
T 562 om-21.....	CIE Whiteness and Tint of Paper and Paperboard (45/0 Geometry, <i>C</i> /2 Illuminant/Observer)
T 563 om-21.....	Equivalent Black Area (EBA) and Count of Visible Dirt in Pulp, Paper and Paperboard by Image Analysis
T 564 sp-21.....	Transparent Chart for the Estimation of Defect Size
T 565 wd-03.....	Contact Angle of Water Droplets on Corona-Treated Polymer Film Surfaces
T 566 om-21.....	Bending Resistance (Stiffness) of Paper (Taber-Type Tester in 0 to 10 Taber Stiffness Unit Configuration)
*T 567 om-20.....	Determination of Effective Residual Ink Concentration (ERIC) by Infrared Reflectance Measurement
*T 568 om-23.....	Physical Area of Sub-visible Contraries in Pulp, Paper and Paperboard by Image Analysis
*T 569 om-22.....	Internal Bond Strength (Scott Type)
T 570 wd-07.....	Resistance to Mechanical Penetration of Sanitary Tissue Papers (Ball Burst Procedure)
T 571 wd-06..... (T 571 om-03).....	Diffuse Brightness of Paper and Paperboard ( <i>d</i> /0)
*T 572 sp-21.....	Accelerated Pollutant Aging of Printing and Writing Paper by Pollution Chamber Exposure Apparatus
*T 573 sp-21.....	Accelerated Temperature Aging of Printing and Writing Paper by Dry Oven Exposure Apparatus
T 574 wd-11.....	Wax in Pulp, Paper and Paperboard
T 575 wd-24.....	Roughness of paper and paperboard, stylus (Emveco-type) method
T 576 wd-14.....	Tensile properties of towel and tissue products (using constant rate of elongation apparatus)
*T 577 om-21.....	Score Bend Test
*T 578 sp-22.....	Accelerated Light Aging of Printing and Writing Paper by Xenon-Arc Exposure Apparatus
*T 579 om-23.....	Diffuse brightness of paper, paperboard and pulp ( <i>d</i> /0) (ultraviolet level D65)
*T 580 om-20.....	Thickness (caliper) of towel, tissue, napkin and facial products

*T 581 om-22.....	Dry tensile properties of paper towel and tissue products (using constant rate of elongation apparatus)
T 582 pm-22.....	High Shear Capillary Viscosity of Coating Color on Paper and Paperboard
T 583 pm-24.....	Extensional Viscosity of Coating Color Evaluated as Euler Number Using Orifice Rheometer

## Nonfibrous Materials Testing

*T 600 om-22.....	Analysis of Formaldehyde in Aqueous Solutions and of Free Formaldehyde in Resins
T 601 wd-71..... (T 601 m-46) .....	Analysis of Gasoline
T 602 cm-21.....	Analysis of Sulfuric Acid
T 603 wd-78..... (T 603 m-45-became Useful Method 657) .....	Analysis of Sulfur Burner Gas
T 604 cm-22.....	Sulfur Dioxide in Sulfite Cooking Liquor
T 605 wd-00.....	Reducing a Gross Sample of Granular or Aggregate Material to Testing Size
T 606 wd-72..... (T 606 m-45) .....	Preparation of Liquid Analytical Reagents
T 607 wd-00.....	Analysis of Casein
T 608 wd-72..... (T 608 m-58) .....	Calibration of Volumetric Glassware and Analytical Weights
T 609 wd-72..... (T 609 os-58).....	Indicators for Volumetric Analyses
T 610 sp-22.....	Preparation of Indicators and Standard Solutions
T 611 cm-21.....	Analysis of Bleaching Powder, Calcium Hypochlorite Bleach Liquor and Bleach Sludge
T 612 wd-97.....	Analysis of Sodium Carbonate (Soda Ash)
T 613 cm-23.....	Analysis of Caustic Soda
T 614 wd-79..... (T 614 os-44) .....	Analysis of Alum
T 615 wd-73..... (T 615 os-67) .....	Analysis of Calcium Sulfate Fillers
T 616 wd-80..... (T 616 ts-65-became Useful Method 665).....	Analysis of Sulfur
T 617 cm-23.....	Analysis of Lime
T 618 cm-24.....	Analysis of Limestone
T 619 cm-23.....	Analysis of Salt Cake
T 620 wd-97..... (T 620 cm-83).....	Analysis of Industrial Process Water
T 621 cm-23.....	Analysis of Rosin
T 622 cm-23.....	Analysis of Sodium Hydrosulfite
T 623 wd-97..... (T 623 cm-83).....	Sodium Determination by the Uranyl Zinc Acetate Method
T 624 cm-23.....	Analysis of Soda and Sulfate White and Green Liquors
T 625 cm-24.....	Analysis of Soda and Sulfate Black Liquor
T 626 wd-78..... (T 626 su-66-became Useful Method 658).....	Color Strength and Shade of Dye
T 627 cm-16.....	Determination of Titanium Dioxide
T 628 cm-23.....	Analysis of Rosin Size
T 629 wd-80.....	Analysis of Spent Sulfite Liquor
T 630 wd-85§..... (T 630 om-80) .....	Melting Point of Petroleum Wax (Cooling Curve)
*T 631 om-24.....	Microbiological Enumeration of Process Water and Slush Pulp
T 632 cm-23.....	Analysis of Sodium Silicate
T 633 wd-70..... (T 633 os-50-replaced with T 672).....	Preparation of Magnesium Oxide Standard for Spectral Reflectivity
T 634 wd-85§..... (T 634 om-80) .....	Drop Melting Point of Petroleum Wax, Including Petrolatum
T 635 wd-02.....	Analysis of Tall Oil Skimmings
T 636 wd-85§..... (T 636 os-70).....	Oil Content of Petroleum Waxes

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cm- Classical Method

wd- Withdrawn Method (available upon request from the TAPPI Quality and Standards Department)

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T 637 wd-97.....	Viscosity of Starch and Starch Products (C.I.V. Test)
T 638 wd-96..... (T 638 cm-85).....	Analysis of Starch and Starch Products
T 639 wd-85§..... (T 639 om-80).....	Needle Penetration of Petroleum Waxes
T 640 wd-84..... (T 640 os-78).....	Hardness of Rubber-Covered Rolls (Plastometer Test)
T 641 wd-73..... (T 641 su-54).....	Total Water in Pulp Mill Spent Liquors
T 642 wd-85§..... (T 642 om-80).....	Sealing Strength of Petroleum Wax
T 643 wd-77..... (T 643 su-54-became Useful Method 659).....	Dextrinizing Value of Enzymes (Enzyme Activity)
T 644 wd-85§..... (T 644 os-74).....	Tensile Strength of Petroleum Wax
T 645 wd-71..... (T 645 ts-54-replaced by T 671).....	Analysis of Clay
T 646 om-22.....	Brightness of Clay and Other Mineral Pigments (45/0)
T 647 wd-70..... (T 647 su-54).....	Gross Particles in Coating Clay
*T 648 om-22.....	Viscosity of Coating Clay Slurry
T 649 wd-98.....	Particle-Size Distribution of Coating Clay
*T 650 om-21.....	Solids Content of Black Liquor
T 651 wd-76..... (T 651 su-68-became Useful Method 660).....	Analysis of Highly Opaque Pigments
T 652 wd-85§..... (T 652 om-83).....	Blocking and Picking Points of Petroleum Wax
*T 653 om-22.....	Specular Gloss of Paper and Paperboard at 20 Degrees
T 654 wd-85§..... (T 654 om-80).....	Odor of Petroleum Wax
T 655 wd-85§..... (T 655 os-70).....	Modulus of Rupture of Petroleum Waxes
T 656 cm-20.....	Measuring, Sampling, and Analyzing White Waters
T 657 sp-21.....	Sampling of Fillers and Pigments
T 658 wd-98.....	Properties of Diatomaceous Silica
T 659 wd-85§..... (T 659 os-71).....	Peroxide Number of Petroleum Wax
T 660 wd-79..... (T 660 su-64-became Useful Method 664).....	Analysis of Calcium Carbonate
T 661 wd-00.....	Properties of Synthetic Silicate Pigments
T 662 wd-85§..... (T 662 om-81).....	Congealing Point of Petroleum Waxes Including Petrolatum
T 663 wd-85§..... (T 663 os-72).....	Cone Penetration of Petrolatum
T 664 wd-85§..... (T 664 om-81).....	Coefficient of Kinetic Friction for Petroleum Wax Coatings
T 665 cm-23.....	Analysis of Talc
T 666 wd-97.....	Viscosity of Adhesives Using a Low-Shear Rotating Apparatus
T 667 wd-98.....	pH of Filler and Pigment Slurries
T 668 wd-76..... (T 668 su-66-became Useful Method 661).....	Inorganic Color Pigments and Pastes
T 669 wd-76..... (T 669 su-69-became Useful Method 662).....	Organic Color Pigments and Pastes
T 670 wd-71..... (T 670 su-68-replaced by T 681).....	Screen Residue of Paper Coating Clays and Related Pigments
T 671 wd-98.....	Free Moisture in Fillers and Pigments
T 672 wd-86..... (Became part of T 534 and T 646).....	Preparation of White Powder Tablets for Reflectometry
T 673 wd-98.....	Properties of Alumina Hydrate Pigments
T 674 wd-95..... (Became T 840).....	Testing Adhesives Used in Glued Lab Joints of Corrugated Fiberboard Containers
T 675 wd-85§..... (T 675 om-80).....	Pressure Blocking and Picking Points of Petroleum Wax
T 676 wd-18.....	Viscosity of Starch and Starch Products
T 677 wd-85§..... (T 677 su-71).....	Apparent Viscosity of Petroleum Waxes Compounded with Additives (Hot Melts)
T 678 wd-83..... (Became Useful Method 668).....	Free Available Chlorine Residual Pulp Chlorination Liquors
T 679 wd-85..... (T 679 su-71-became TIS 0804-07).....	Calibration of Reflectance Standards for Hemispherical Geometry
T 680 wd-83..... (T 680 su-71-became TIS 0404-29).....	Porosity Measurement of Press Felts on the Paper Machine (HSPT)
T 681 wd-98.....	Screen Residue of Paper Coating Clays and Related Pigments (High-Speed Mixer Method)
T 682 wd-85§..... (T 682 om-81).....	Gloss Retention of Waxed Paper and Paperboard After Storage at 40°C (104°F)
T 683 wd-85§..... (T 683 su-72).....	Flat Spring Test for Hot Tack of Wax-Polymer Blends
T 684 om-22.....	Gross Heating Value of Black Liquor
T 685 wd-85§..... (T 685 om-81).....	Abrasion Resistance of Petroleum Wax Coatings
T 686 wd-85§..... (T 686 om-83).....	Solvent Extractables in Petroleum Waxes
T 687 wd-85§..... (T 687 om-82).....	Apparent Viscosity of Hot Melt Adhesives and Coating Materials
T 688 wd-85§..... (T 688 om-80).....	Total Wax Content of Corrugated Paperboard

T 689 wd-02.....	Analysis of Crude Tall Oil
T 690 wd-85§..... (T 690 om-81) .....	Surface Wax Coating on Corrugated Board
T 691 wd-85§..... (T 691 om-81) .....	Applied Coating Wax and Impregnating (Saturating) Wax in Corrugated Board Facing
*T 692 om-23.....	Determination of Suspended Solids in Kraft Green and White Liquor
T 693 wd-85§..... (T 693 om-85) .....	Weight of Wax Applied During Curtain Coating Operation
T 694 wd-97.....	Determination of Sodium Polysulfide in Kraft White Liquor
T 695 wd-85§..... (T 695 pm-83) .....	Solidification Point of Petroleum Wax
T 696 wd-85§..... (T 696 om-83) .....	Transition Temperature of Petroleum Waxes by Differential Scanning Colorimetry
T 697 cm-24.....	Accelerated Test for Viscosity Stability of Clay Slurries
T 698 wd-14.....	Determination of Wetting Tension of Polyethylene and Polypropylene Films and Coatings (Modified Visking Analytical Technique)
T 699 wd-21.....	Analysis of Pulping Liquors by Suppressed Ion Chromatography
T 700 wd-00.....	Analysis of Bleaching Liquors by Suppressed Ion Chromatography
T 701 wd-08.....	Gravimetric Method for Measuring Dewatering of Coating Colors (Åbo-Akademi-Type Method)
*T 702 om-22.....	Rheological Measurements for Characterization of Polyolefins: Low-Density Polyethylene (LDPE) for Extrusion Coating

## Container Testing

T 800 cm-16.....	Drum Test for Fiberboard Shipping Containers (Revolving Hexagonal Drum)
T 801 wd-11 (withdrawn in favor of equivalent NIST Standards)	Impact Resistance of Fiberboard Shipping Containers
*T 802 om-22 .....	Drop Test for Fiberboard Shipping Containers
T 803 cm-20.....	Puncture Test of Container Board
*T 804 om-24.....	Compression Test of Fiberboard Shipping Containers
T 805 wd-94..... (T 805 om-89).....	Water Resistance of Fiberboard Shipping Containers (Spray Method)
T 806 wd-70..... (T 806 su-46) .....	Adhesiveness of Seals and Closure for Packages
T 807 om-16.....	Bursting Strength of Linerboard
T 808 cm-15.....	Flat Crush Test of Corrugated Board (Flexible Beam Method)
*T 809 om-22.....	Flat Crush of Corrugated Medium (CMT Test)
*T 810 om-22.....	Bursting Strength of Corrugated and Solid Fiberboard
*T 811 om-23.....	Edgewise Compressive Strength of Corrugated Fiberboard (Short Column Test)
*T 812 om-24.....	Ply separation of solid and corrugated fiberboard (wet)
T 813 wd-12.....	Tensile Test for the Manufacturer's Joint of Fiberboard Shipping Containers
T 814 wd-83..... (Became Useful Method 815).....	Peel and Shear of Hot Melt Bonds at Elevated Temperatures
*T 815 om-24.....	Coefficient of Static Friction (Slide Angle) of Packaging and Packaging Materials (Including Shipping Sack Papers, Corrugated and Solid Fiberboard) (Inclined Plane Method)
T 816 wd-00.....	Coefficient of Static Friction of Corrugated and Solid Fiberboard

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	(Horizontal Plane Method)
T 817 wd-96..... (T 817 om-89).....	Vibration Test for Fiberboard Shipping Containers
T 818 cm-18.....	Ring Crush of Paperboard (Flexible Beam Method)
T 819 wd-17..... (T 819 cm-07).....	Water Absorption of Corrugating Medium: Boat Method
T 820 cm-09.....	Flexural Stiffness of Corrugated Board
*T 821 om-22.....	Pin Adhesion of Corrugated Board by Selective Separation
*T 822 om-22.....	Ring Crush of Paperboard (Rigid Support Method)
T 823 wd-90..... (T 823 pm-84).....	Edgewise Compressive Strength of Corrugated Fiberboard (Rigid Support Method)
T 824 cm-23.....	Fluted Edge Crush of Corrugating Medium (Flexible Beam Method)
*T 825 om-24.....	Flat Crush Test of Corrugated Board (Rigid Support Method)
T 826 om-21.....	Short Span Compressive Strength of Containerboard
*T 827 om-24.....	Box Blank Dimensioning
T 828 wd-96..... (T 828 pm-89).....	Coefficient of Kinetic Friction Between Corrugating Medium and a Heated Steel Surface
T 829 om-21.....	Score Quality Test
*T 830 om-24.....	Ink Rub Test of Containerboard and Corrugated Board
T 831 om-21.....	Water Absorption of Corrugating Medium: Water Drop Penetration Test
*T 832 om-22.....	Water Absorption of Corrugating Medium: Float Curl Method
T 833 wd-01.....	Test for Interfiber Bond Using the Internal Bond Tester
*T 834 om-24.....	Determination of Containerboard Roll Hardness
*T 835 om-22.....	Water Absorption of Corrugating Medium: Water Drop Absorption Test
*T 836 om-20.....	Bending Stiffness, Four Point Method
T 837 wd-01.....	Measuring the Bond Strength of a Glued Manufacturer's Joint
T 838 cm-21.....	Edge Crush Test Using Neckdown
*T 839 om-24.....	Edgewise Compressive Strength of Corrugated Fiberboard Using the Clamp Method (Short Column Test)
T 840 wd-15.....	Testing Adhesives Used in Glued Lap Joints of Corrugated Fiberboard Containers
T 841 wd-13.....	Edgewise Compressive Strength of Corrugated Fiberboard Using the Morris Method (Short Column Test)
T 842 wd-03.....	Corrugated Board Glue Bond Wet Shear Test
*T 843 om-24.....	Fluted Edge Crush of Corrugating Medium (Rigid Support Method)
*T 844 om-21.....	Determining Construction (Nominal Basis Weight) of Corrugated Board
*T 845 om-20.....	Wet Pin Adhesion of Corrugated Board by Selective Separation

## Structural Materials Testing

T 1000 wd-00.....	Thermal Conductivity of Structural Insulating Board
T 1001 wd-09.....	Forming Insulating Boards for Physical Tests
T 1002 wd-09.....	Drainage Time of Pulp for Insulating Board
T 1003 wd-00.....	Flexural Resistance and Deflection of Insulating Board
T 1004 wd-00.....	Edge Nail Strength of Insulating Board
T 1005 wd-00.....	Racking Strength of Structural Insulating Board
*T 1006 sp-22.....	Testing of Fiber Glass Mats: Use of Modified TAPPI Procedures for Sampling and Lot Acceptance, Stiffness, Tear Resistance, and Thickness
*T 1007 sp-22.....	Sample Location for Fiber Glass Mat Sheets
*T 1008 sp-24.....	Test Conditions for Fiber Glass Mat Test Methods
T 1009 om-16.....	Tensile Strength and Elongation at Break for Fiber Glass Mats
T 1010 wd-00.....	Flexibility Index of Fiber Glass Mats
*T 1011 om-23.....	Basis Weight of Fiber Glass Mats

*T 1012 om-23.....	Moisture Content of Fiber Glass Mats
*T 1013 om-22.....	Loss on Ignition of Fiber Glass Mats
*T 1014 om-24.....	Moisture Sensitivity of Fiber Glass Mats
*T 1015 sp-24.....	Fiber Glass Mat Uniformity (Visual Defects)
T 1016 om-15.....	Average Fiber Diameter of Fiber Glass Mats
T 1017 wd-00.....	Impregnation Time for Fiberglass Mats

## Testing Practices

*T 1200 sp-24.....	Interlaboratory Evaluation of Test Methods to Determine TAPPI Repeatability and Reproducibility
T 1201 wd-85..... (T 1201 os-72 became TIP 0607-25).....	Definitions of Terms Used in the Sulfite Pulping Process
T 1202 wd-84..... (T 1202 os-61).....	Standard Terms Used in the Soda Pulping Process
T 1203 wd-84..... (T 1203 os-61).....	Standard Terms Used in the Sulfate Pulping Process
T 1204 wd-76..... (T 1204 os-61).....	Standard Terms Relating to Tall Oil
*T 1205 sp-24.....	Dealing with Suspect (Outlying) Test Determinations
T 1206 wd-00..... (1206 rp-91 combined with T 1200 sp-00).....	Precision Statement for Test Methods
T 1207 wd-84..... (Replaced by Test Methods Guidelines).....	Style Guide for the Preparation of TAPPI Official Test Methods and Provisional Test Methods
T 1208 wd-84..... (Replaced by Test Methods Guidelines).....	Procedure for Review and Approval of TAPPI Official Test Methods and Provisional Test Methods
T 1209 wd-92.....	Identification of Instrumental Methods of Color or Color-Difference Measurement
*T 1210 sp-22.....	Units of Measurement and Conversion Factors
*T 1211 sp-19.....	Self-certification practice for organizations providing reference materials for TAPPI Standards
*T 1212 sp-21.....	Light Sources for Evaluating Papers, Including Those Containing Fluorescent Whitening Agents
T 1213 wd-08..... (Replaced by T 1500).....	Optical Measurements Terminology (Related to Appearance Evaluation of Paper)
*T 1214 sp-22.....	Interrelation of Reflectance, $R_0$ ; Reflectivity, $R_{\infty}$ ; TAPPI Opacity, $C_{0.89}$ ; Scattering, $s$ ; and Absorption, $k$
T 1215 sp-21.....	The Determination of Instrumental Color Differences
*T 1216 sp-22.....	Indices for Whiteness, Yellowness, Brightness, and Luminous Reflectance Factor
*T 1217 sp-23.....	Photometric Linearity of Optical Properties Instruments
*T 1218 sp-23.....	Calibration of Reflectance Standards for Hemispherical Geometry
*T 1219 sp-22.....	Storage of Paper Samples for Optical Measurements and Color Matching

## Specifications, Glossaries, and Guidelines

*T 1500 gl-18.....	Optical Measurements Terminology (Related to Appearance Evaluation of Paper)
*T 1501 sg-23.....	Training Standard for Paper Machine Tender

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