

PULP AND PAPER TECHNICAL ASSOCIATION OF CANADA STANDARD TESTING METHODS

	Standard Number	Date of Last Revision
A. MEASURING AND SAMPLING		
Basic Density of Wood (see also A.8P)	A.1H	Nov. 64
Air-Dry Weight Determination of Wood Pulp (see also A.9P)	A.2	June 06
Sampling of Sheeted Materials for Testing	A.3	June 2007
Conditioning Pulp Handsheets, Paper or Paperboard for Testing in a Standard Atmosphere.	A.4	October 2013
Sampling Chemical Pulps in the Pulp Mill for Chemical Testing	A.5H	June 73
Flow Measurements of White-Waters and Wastes	A.6	June 06
Water Removal Test for Paper Machines.	A.7	Sept. 03
Basic Density of Wood.	A.8P	September 2013
Total Dry Weight of Wood Pulp in Bales.	A.9P	June 73
Moisture Content of Woodchips and Sawdust (Forced Air Oven Method)	A.10P	May 05
B. IDENTIFICATION		
Fibre Composition of Paper	B.1H	Nov. 61
Preparation of Slides for the Microscopic Examination of Fibres	B.2P	May 05
Wood Fibre Identification According to Pulping Process	B.3P	Sept. 03
Fibre Length of Pulp and Paper by Automated Optical Analyzer Using Polarized Light	B.4P	Apr. 2011
Quantitative Analysis of Fibre Mixtures by Light Microscopy	B.7	Apr. 2011
C. FIBRE TREATMENT		
The Determination of Freeness.	C.1	Apr. 06
The Laboratory Beating of Pulp (Valley Beater Method).	C.2H	Sept. 00
Laboratory Processing of Pulp (Pebble Mill Method)	C.3H	Mar. 80
Forming Handsheets for Physical Tests of Pulp.	C.4	Sept. 03
Forming Handsheets for Optical Tests of Pulp (British Sheet Machine Method).	C.5	June 06
Pulp Evaluation – Disintegrator Method.	C.6H	May 90
Laboratory Beating of Pulp (PFI Mill Method).	C.7	September 2013
Latency Removal by Hot Disintegration (Domtar Method).	C.8P	Apr. 2011
Pulp Evaluation – 25 Minute Disintegrator Method	C.9P	June 06
Pulp Disintegration.	C.10	June 06
Shive Content of Mechanical Pulps (Somerville Fractionator Method).	C.11P	Apr. 2011
Laboratory Screening of Pulp (Pulmac-Type Instrument)	C.12P	Sept. 03
D. PHYSICAL TESTING		
Machine Direction of Paper and Paperboard.	D.1	May 05
Wire and Felt Sides of Paper and Paperboard	D.2	Sep. 2011
Grammage of Paper and Paperboard	D.3	Sep. 2011
Thickness and Apparent Density of Paper and Paperboard	D.4	October 2013
Bulking Thickness of Paper and Paperboard.	D.5H	Oct. 81
Tensile Breaking Strength of Paper and Paperboard	D.6H	May 84
Stretch of Paper and Paperboard	D.7H	May 84
Bursting Strength of Paper.	D.8	May 05
Internal Tearing Resistance of Paper, Paperboard and Pulp Handsheets	D.9	Aug. 93
Wetted Tensile Breaking Strength of Paper and Paperboard	D.10	June 06
Wax Test for Surface Strength of Paper	D.11	Sept. 00
Physical and Optical Testing of Pulp Handsheets.	D.12	Sept. 03
Sieve Analysis of Pulpwood Chips.	D.13H	Nov. 64
Air Resistance of Paper (Gurley Method)	D.14	June 2011
Water Vapour Transmission Rate of Paper and Paperboard	D.15P	May 2012
Consistency of Stocks.	D.16	June 06
Folding Endurance of Paper (M.I.T. Method)	D.17	Sep. 2011
Quality of Pulpwood Chips.	D.18H	Mar. 67
Bursting Strength of Board.	D.19	May 05

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Flat Crush Test of Corrugated Board (Deflection Beam Method)	D.20P	June 2011
Wet Adhesiveness of Gummed Paper Tape	D.21H	Oct. 88
Puncture Test of Containerboard – Beach Method.	D.22H	Nov. 98
Tensile Breaking Properties of Wet Webs.	D.23P	Sep. 2011
Flat Crush Test of Corrugating Medium.	D.24P	Oct. 88
Compressive Strength of Paper and Paperboard.	D.25P	Aug. 93
Edge Tearing Strength of Paper (Finch Method)	D.26H	July 97
Sieve Analysis of Pulpwood Chips.	D.27H	Oct. 81
Stiffness of Paper and Paperboard (Taber-Type Stiffness Tester).	D.28	May 2013
Roughness of Paper and Paperboard (Sheffield Method)	D.29	June 2011
Edgewise Compression Resistance of Fluted Corrugating Medium.	D.30P	July 97
Roughness of Paper (Print-surf Method)	D.31P	July 97
Dry and Wet Tensile Breaking Strength and Stretch of Creped Papers	D.32	Sept. 03
Ring Crush of Paperboard.	D.33P	Aug. 93
Tensile Breaking Properties of Paper and Paperboard (Constant Rate of Elongation Method).	D.34	Sep. 2011
Equivalent Black Area (EBA) of Visible Dirt in Pulp, Paper and Paperboard by Image Analysis.	D.35	Feb. 2012
Dirt in Pulp, Paper and Paperboard.	D.36P	July 96
Z-Directional Strength of Paper and Paperboard	D.37	Feb. 2012
Size Test for Paper and Paperboard by Ink Resistance (Hercules-Type Tester)	D.38P	May 2012
Internal Bond Strength of Paper and Paperboard (Scott-Type)	D.39P	May 05
Physical Area of Subvisible Contraries in Pulp, Paper and Paperboard by Image analysis	D.40P	June 2006
E. OPTICAL TESTING		
Brightness of Pulp, Paper and Paperboard.	E.1	May 90
Opacity of Paper.	E.2	May 2011
Seventy-Five Degree Specular Gloss of Paper and Paperboard	E.3P	Sept. 00
An Accelerated Aging Test for Brightness Reversion of Pulp	E.4P	May 2012
Pulp, Paper and Paperboard – Colour Measurement with a Diffuse/Zero Geometry Tristimulus Reflectometer	E.5	May 2011
Blue Reflectance (R _z) of Pulp, Paper and Paperboard	E.6H	Nov. 98
Luminous Reflectance Factor.	E.7H	Nov. 98
Determination of Effective Residual Ink Concentration (ERIC) infrared Reflectance Measurement.	E.8P	May 05
F. ABSORPTIVE PROPERTIES		
Water Resistance of Paper and Paperboard (Dry Indicator Method)	F.1H	Aug. 92
Determination of Water Absorptiveness (Cobb Method)	F.2	May 2013
Surface Wettability of Paper and Paperboard (Angle of Contact Method)	F.3H	Oct. 88
Absorption of Water and Ink by Bibulous and Blotting Paper	F.4	Sept. 03
Oil Resistance of the Surface of Paperboard.	F.5H	May 90
Turpentine Test for Grease-Resistant Papers.	F.6	June 2013
Absorption of Water by Lightweight Creped Papers	F.7P	Sept. 03
G. CHEMICAL TESTING		
Moisture in Wood Chips, Sawdust and Pulp by the Toluene Method	G.1H	Oct. 88
Moisture Determination for Chemical and Physical Analysis	G.3	May 05
Hot and Cold Water Solubility of Wood and Pulp.	G.4 & G.5	June 06
One Per Cent Sodium Hydroxide Solubility of Wood and Pulp	G.6 & G.7	June 06
Determination of Total Lignin in Wood and Pulp	G.8 & G.9	June 2007
Ash in Pulp and Wood.	G.10	May 2013
Ash of Paper and Paperboard.	G.11	May 2013
Pentosans in Pulp.	G.12	June 06
Solvent Extractives in Wood and Pulp	G.13 & 20	June 2006

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Pitch and Rosin in Paper.	G.14H	June 68
Paraffin in Paper and Paperboard	G.15H	Sept. 03
Chlorine Number of Pulp.	G.16H	Oct. 88
Permanganate Number of Pulp.	G.17H	Sept. 60
Kappa Number of Pulp.	G.18	June 2007
Amount of Mineral Coating on Paper and Paperboard	G.19H	Oct. 88
Alkali-Resistant Cellulose in Pulp.	G.21H	Sept. 65
Copper Number of Bleached Pulp.	G.22H	Sept. 03
Starch in Paper.	G.23P	Sept. 03
Cupriethylenediamine Viscosity of Pulp.	G.24P	Sept. 00
pH of Paper and Paperboard (Extract and Surface).	G.25P	Oct. 88
Alkali Solubility of Pulp.	G.26	Nov. 98
Alkali-Resistant Cellulose in Pulp.	G.27H	Oct. 88
Total Sulphur in Pulp, Paper and Paperboard	G.28	June 2006
Alpha-, Beta-, and Gamma-Cellulose in Bleached Pulp.	G.29H	Sept. 00
Wet Ashing of Wood, Pulp and Paper.	G.30P	Sept. 03
Preparation of Wood for Chemical Analysis.	G.31	Sept. 03
Hypo Number of Pulp	G.32H	May 2012
Acid-Insoluble Ash in Pulp.	G.33	Feb. 2014
Determination of Sodium, Magnesium, Calcium, Manganese, Iron, Copper and Cadmium in Wood, Pulp or Paper by Atomic Absorption Spectrophotometry. . .	G.34P	Aug. 92
H. WATER AND EFFLUENT TESTING		
Determination of Solids Content of Pulp and Paper Mill Effluents	H.1	June 2006
Determination of Biochemical Oxygen Demand	H.2	May 2012
Chemical Oxygen Demand.	H.3	May 2012
Analysis of Process Waters.	H.4P	Nov. 98
Colour of Pulp Mill Effluents	H.5	June 2006
Determination of Adsorbable Organic Halogens (AOX) in Waters and Wastewaters.	H.6	Sept. 03
Adsorbable Organic Halogens (AOX) in Water Extracts of Pulp	H.7P	June 06
Total Organic Halogens (TOX) in Pulp, Paper or Paperboard	H.8P	June 06
J. NON-FIBROUS MATERIAL TESTING		
Analysis of Bisulphite Liquor.	J.1H	Aug. 93
Analysis of Calcium Hypochlorite Bleaching Powder, Bleach Liquor and Bleach Sludge	J.2H	Nov. 64
Analysis of Sulphur Burner Gas.	J.3H	Mar. 65
Analysis of Limestone	J.4	May 05
Analysis of Lime — Available Lime Index.	J.5H	July 96
Analysis of Alum.	J.6H	Sept. 00
Sampling and Analysis of Coal.	J.7H	Mar. 68
Indicators for Volumetric Analysis.	J.9H	Sept. 03
Analysis of Rosin Size	J.10H	Sept. 03
Analysis of Soda Ash.	J.11H	Sept. 03
Analysis of Sulphate Green and White Liquors	J.12	May 84
Analysis of Sulphite Cooking Liquors.	J.13P	Nov. 06
Chlorine Dioxide Plant Analyses	J.14P	June 06
Analysis of Sulphate Process Black Liquors	J.15H	May 2012
Analysis of Peroxides.	J.16P	Sept. 03
Analysis of Hydrosulphites.	J.17P	Sept. 03
Analysis of Fillers and Pigments	J.18P	Sept. 03
Thermal Value of Fuels.	J.19P	June 06
Determination of Anions in Pulping and Process Liquors by Suppressed Ion Chromatography – I: Sulphur Species.	J.20P	June 2006

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Analysis of Saltcake	J.21P	June 2007
Analysis of Chlorine Solutions , Hypochlorite Bleach Liquors and Spent Bleach Liquors	J.22P	Sept. 03
Analysis of Sulphur Burner Gas.	J.23H	Nov. 98
Analysis of Bunker "C" Oil (Scope).	J.24aH	May 2012
Thermal Value of Bunker "C" Oil.	J.24bH	July 97
Ash Content of Bunker "C" Oil.	J.24cH	July 97
Relative Density of Bunker "C" Oil.	J.24dH	May 2012
Saybolt Viscosity of Bunker "C" Oil.	J.24eH	May 2012
Bunker "C" Oil – Water and Sediment by Centrifugation	J.24fH	May 2012
Sulphur Content	J.24gH	July 97
Determination of Dispersed Pitch.	J.25P	June 2006

K. TERMINOLOGY

Standard Terms for the Furnish of Paper and Paperboard and for the and for the Measurement of Fibre Losses	K.1	May 2012
Standard Terms used in the Alkaline Kraft Pulp Process	K.2	May 2012
Standard Terms Encountered in the Control of Sulphite Bleach Plant Operations	K.3H	Nov. 98

Z. GENERAL

Preparation and Adoption of Standard Testing Methods.	Z.1	Aug. 92
Accuracy and Precision of Standard Testing Methods.	Z.2P	May 2012