

PHYSICAL TESTING – PULP

REFINING

Escher Wyss conical refiner	FA 10.002
PFI refiner	ISO 5264-2

PULP PROPERTIES

Beating degree SR°/Freeness CSF	ISO 5267-1,-2
Dynamic Drainage Analyser (DDA)	FA 10.302
Water Retention Value, WRV	ISO 23714

PREPARATION OF PULP

Dry matter content	ISO 638
Stock concentration	ISO 4119
Disintegration	ISO 5263-1, -2, -3
Standard water	ISO 11487/SCAN CM 68:05

LABORATORY SHEET FORMER

Conventional sheet former	ISO 5269-1
Rapid Köthen	ISO 5269-2,-3

PROPERTIES ON LABORATORY SHEET

Grammage	ISO 536
Thickness, bulk and density	ISO 534
Brightness	ISO 2470-1,-2
Light scattering coefficient, s	ISO 9416
Light absorption coefficient, k	ISO 9416
Air permeance/porosity, Bendtsen	ISO 5636-3
Air resistance, Gurley	ISO 5636-5
Tensile strength	ISO 1924-2,-3
Bursting strength	ISO 2758
Tear resistance	ISO 1974

OPTICAL PROPERTIES

Brightness	ISO 2470-1,-2
Whiteness CIE	ISO 11475,11476
Whiteness Berger	ISO 11475,11476
Whiteness ASTM E313	ISO 11475,11476
Preparation for brightness	ISO 3688
Sheet forming for brightness	SCAN CM 11:95
Ageing 80°C, 80% Rh, 16h	FA 11.202a
Ageing 120°C, 16h	FA 11.202b

FIBRES, SHIVES AND FINES

Bauer McNett, fibre fraction	SCAN CM 6:05
BrittJar, fines	SCAN CM 66:05
Somerville, shives	T 275

PulpEye

Fibre length	FA 10.400
Fibre width	FA 10.400
Fibre form, curl	FA 10.400
Fines	FA 10.400
Fibre weight, coarseness	FA 10.401
Shives	FA 10.402
Fibre length distribution	FA 10.403
Kinks	FA 10.400
Pictures, fibres and shives	FA 10.404

PURITY

Dirt and shives	ISO 5350-1, -2, -3
Dirt in pulp	T 213
Stone cells	FA 11.302

PERMANENCE

Acc. ageing	ISO 5630-1,-3, -4, -7
Brightness ageing, xenon light	FA 11.900

PAPER CHEMISTRY

Ash	ISO 1762, 2144
Cationic	SCAN W 12
Retention study, Britt Jar	FA 16.912
Retention study, DDA	FA 16.913
Turbidity	FA 16.914

Z-potential	FA 16.915
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