

DIN SPEC 55700:2016-08 (E)

Paper and Pulp - Deinkability test for printed paper products; Text in English

Inhalt	Seite
Foreword	4
Introduction.....	5
1 Scope.....	6
2 Normative References.....	6
3 Terms and definitions.....	6
4 Principle	7
5 Equipment	7
5.1 General equipment	7
5.2 Equipment for preparation and flotation.....	8
5.3 Equipment for specimen preparation	8
5.4 Equipment for Analysis	8
6 Chemicals	9
7 Procedure	9
7.1 General.....	9
7.2 Sampling and sample preparation.....	10
7.3 Determination of the required amount of sample.....	11
7.4 Preparation of dilution water and chemicals.....	12
7.5 Pulp preparation	13
7.6 Flotation	15
7.7 Yield	16
8 Specimen preparation	16
8.1 General.....	16
8.2 Filter pads.....	17
8.3 Handsheets with tap water	18
8.4 Handsheets with recirculated water.....	18
8.5 Filtrate darkening	18
9 Analysis.....	19
9.1 General.....	19
9.2 Calibration for reflectance measurements	19
9.3 Reflectance measurements	19
9.4 Filtrate darkening	20
9.5 Dirt particle measurement.....	21
10 Test Report.....	21
Annex A (normative) Pulping devices	23
A.1 Determination of pulper operating conditions	23
A.2 Hobart pulper N 50	23
A.3 Kenwood pulper KMM 020.....	25
Annex B (informative) Flotation cells	26
B.1 PTS Flotation cell	26
B.2 Voith Delta 25 TM	26
Annex C (normative) Testing the filtration time of filter papers	27

C.1 General	27
C.2 Materials	27
C.3 Test equipment.....	27
C.4 Preparation.....	27
C.5 Testing.....	27
C.6 Documentation	27
Annex D (informative) Testing the pH of smaller sample amount	28
Annex E (informative) Suitable scanners.....	29
Annex F (informative) Threshold value determination.....	30
Annex G (informative) Example for a test report.....	31