

ISO 12507:2025-02 (E)

Paper and pulp - Deinkability test for printed paper product mixtures containing woodfree printed paper

| Contents | | Page |
|--------------------|---|-------------|
| Foreword | | v |
| Introduction | | vi |
| 1 | Scope | 1 |
| 2 | Normative references | 1 |
| 3 | Terms and definitions | 1 |
| 4 | Principle | 2 |
| 5 | Equipment | 3 |
| 5.1 | General equipment | 3 |
| 5.2 | Equipment for preparation and flotation | 3 |
| 5.3 | Equipment for specimen preparation | 3 |
| 5.4 | Equipment for analysis | 4 |
| 6 | Chemicals | 4 |
| 7 | Procedure | 5 |
| 7.1 | General | 5 |
| 7.2 | Sampling and sample preparation | 6 |
| 7.2.1 | General | 6 |
| 7.2.2 | Identification | 7 |
| 7.2.3 | Non-paper material/loose and glued inserts/insertions | 7 |
| 7.2.4 | Adhesive applications | 7 |
| 7.2.5 | Accelerated ageing | 7 |
| 7.2.6 | Breaking up of samples | 7 |
| 7.2.7 | Measurement of moisture | 8 |
| 7.2.8 | Measurement of ash content | 8 |
| 7.2.9 | Determination of the required amount of sample | 8 |
| 7.3 | Preparation of dilution water and chemicals | 8 |
| 7.3.1 | General | 8 |
| 7.3.2 | Preparation of dilution water | 8 |
| 7.3.3 | Preparation of chemicals | 9 |
| 7.4 | Pulp preparation | 10 |
| 7.4.1 | Pulping | 10 |
| 7.4.2 | pH requirement | 10 |
| 7.4.3 | Storage | 11 |
| 7.4.4 | Dilution | 12 |
| 7.5 | Flotation | 12 |
| 7.6 | Yield | 12 |
| 8 | Specimen preparation | 13 |
| 8.1 | General | 13 |
| 8.2 | Filter pads | 13 |
| 8.3 | Membrane filters | 14 |
| 8.4 | Handsheets | 14 |
| 9 | Analysis | 15 |

| | | |
|---|---|----|
| 9.1 | General | 15 |
| 9.2 | Reflectance measurements | 15 |
| 9.2.1 | General | 15 |
| 9.2.2 | Reflectance factors | 15 |
| 9.3 | Filtrate darkening | 15 |
| 9.4 | Dirt particle measurement | 15 |
| 9.4.1 | Scanner | 15 |
| 9.4.2 | Procedure for dirt particle measurement | 16 |
| 10 | Test report | 16 |
| Annex A (normative) Pulping devices | | 18 |
| Annex B (informative) Examples of flotation cells | | 19 |
| Annex C (normative) Testing the filtration time of filter papers | | 20 |
| Annex D (informative) Testing the pH of smaller sample amount | | 21 |
| Annex E (normative) Threshold value determination and size classification | | 22 |
| Bibliography | | 23 |