ISO 2469:2024-03 (E)

Paper, board and pulps - Measurement of diffuse radiance factor (diffuse reflectance factor)

Contents

Page

Foreword ... iv

Introduction ... v

1 Scope ... 1

2 Normative references ... 1

3 Terms and definitions ... 1

4 Principle ... 3

5 Apparatus ... 3
- 5.1 Reflectometer ... 3
- 5.2 Reference standards ... 4
- 5.3 Working standards ... 4
- 5.4 Black cavity ... 4

6 Calibration of the instrument and its working standards ... 4
- 6.1 General ... 4
- 6.2 Photometric calibration of the instrument and UV setting ... 4
  - 6.2.1 Step 1 ... 4
  - 6.2.2 Step 2 ... 5
  - 6.2.3 Step 3 ... 5
  - 6.2.4 Step 4 ... 5
  - 6.2.5 Step 5 ... 5
- 6.3 Value assignment to the working standards for their intended use ... 5
- 6.4 Use of the working standards ... 6
- 6.5 Cleaning the working standards ... 6

7 Sampling ... 6

8 Preparation of the test pieces ... 6

9 Procedure ... 7
- 9.1 General ... 7
- 9.2 Verification of calibration ... 7
- 9.3 Measurement ... 7

10 Calculation and expression of results ... 7

11 Precision ... 7

12 Test report ... 7

Annex A (normative) **Instruments for the measurement of radiance factor** ... 9

Annex B (normative) **Calibration service — Photometric calibration** ... 21

Annex C (normative) **Calibration service — UV-adjustment** ... 23

Annex D (informative) **Measurement uncertainty** ... 25

Bibliography ... 28