

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