

Indian Standard

PAPER, BOARD AND PULPS — MEASUREMENT OF DIFFUSE BLUE REFLECTANCE FACTOR

PART 2 OUTDOOR DAYLIGHT CONDITIONS (D65 BRIGHTNESS)

1 Scope

This part of ISO 2470 specifies a method for measuring the D65 brightness of pulps, papers and boards.

This part of ISO 2470 is limited in its scope to white and near-white pulps, papers and boards, particularly those exhibiting fluorescence which promotes the appearance of whiteness. The measurement can only be made in an instrument in which the ultraviolet energy level of the illumination has been adjusted to correspond to the CIE standard illuminant D65 using a fluorescent reference standard.

The source employed in this part of ISO 2470 excites almost twice as much fluorescence as the illuminant in ISO 2470-1. Consequently, this part of ISO 2470 is better suited for measuring the fluorescent contribution to the brightness. However, D65 brightness should not be confused with ISO brightness which closely approximates the brightness of papers viewed under indoor conditions.

NOTE The property called ISO brightness is measured with an instrument adjusted to a much lower UV content than that specified in this part of ISO 2470. The measurement of ISO brightness is described in ISO 2470-1.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 186, *Paper and board — Sampling to determine average quality*

ISO 2469:2007, *Paper, board and pulps — Measurement of diffuse radiance factor*

ISO 3688, *Pulps — Preparation of laboratory sheets for the measurement of diffuse blue reflectance factor (ISO brightness)*

ISO 7213, *Pulps — Sampling for testing*

ISO 11475:2004, *Paper and board — Determination of CIE whiteness, D65/10° (outdoor daylight)*