

DIN ISO 18314-2:2017-04 (E)

Analytical colorimetry - Part 2: Saunderson correction, solutions of the Kubelka-Munk equation, tinting strength, hiding power (I SO 18314-2:2015)

Contents		Page
National foreword		3
1	Scope	5
2	Terms, definitions, symbols, and abbreviated terms	5
2.1	Terms and definitions	5
2.2	Symbols and abbreviated terms	6
3	Saunderson correction	8
3.1	General	8
3.2	Incidence diffuse, observation 0° (d/0°)	8
3.3	Incidence 45°, observation 0° (45°: 0°)	8
4	Solution of the Kubelka-Munk equations	9
5	Determination of relative tinting strength and residual colour difference of coloured pigments	10
5.1	General	10
5.2	Principle	10
5.3	Procedure	10
5.3.1	General	10
5.3.2	Evaluation of absorption at the absorption maximum	11
5.3.3	Evaluation of the weighted K/S sum	11
5.3.4	Evaluation by equalizing the tristimulus value, Y	12
5.3.5	Evaluation by equalizing the smallest of the tristimulus values X, Y, and Z	12
5.3.6	Evaluation by equalizing the shade depth	13
6	Determination of hiding power of pigmented media	14
6.1	General	14
6.2	Example for white or light coloured paints with a contrast ratio of 0,98 as hiding power criterion	15
7	Repeatability and reproducibility	16
8	Test report	16
Annex A (normative) Tables of coefficients for calculating a() values (standard illuminant D65 and 10° standard observer)		17
Annex B (normative) Tables of coefficients for calculating a() values (standard illuminant C and 2° standard observer)		19
Bibliography		21
National Annex NA (informative) Bibliography		4