

DIN EN ISO 3233-3:2015-09 (E)

Paints and varnishes - Determination of the percentage volume of non-volatile matter - Part 3: Determination by calculation from the non-volatile-matter content determined in accordance with ISO 3251, the density of the coating material and the density of the solvent in the coating material (ISO 3233-3:2015)

Contents		Page
Foreword		3
Introduction		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	5
4	Principle	6
5	Procedure	6
5.1	Determination of the theoretical dry film density	6
5.2	Determination of the density	7
5.3	Determination of film thickness	7
6	Calculation	7
6.1	Calculation of the theoretical dry film density	7
6.2	Calculation of the non-volatile matter by volume using the theoretical dry film density	8
6.3	Determination of the theoretical spreading rate	8
7	Precision	9
7.1	Repeatability limit	9
7.2	Reproducibility limit	9
8	Test report	9
Annex A (informative) Derivation of the theoretical dry film thickness		10
Annex B (informative) Derivation of the theoretical spreading rate		12
Annex C (informative) Example for the calculation of the theoretical spreading rate		15
Annex D (informative) Overview on the existing methods for determination of non-volatile-matter content and volume of non-volatile matter		16
Bibliography		18