

ISO 3233-1:2019-11 (E)

Paints and varnishes - Determination of percentage volume of non-volatile matter - Part 1: Method using a coated test panel to determine non-volatile matter and to determine dry-film density by the Archimedes' principle

Contents		Page
Foreword		iv
Introduction		v
1	Scope	1
2	Normative references	1
3	Terms and definitions	1
4	Principle	2
5	Apparatus and reagents	2
6	Sampling	5
7	Procedure	5
7.1	Number of determinations and preparation	5
7.2	Choice of receptacle	5
7.3	Determination of volume of uncoated receptacle	5
7.4	Application	6
7.4.1	General	6
7.4.2	Discs	6
7.4.3	Plates	6
7.4.4	Drying	7
7.5	Determination of volume of dry coating	7
7.6	Determination of density of the liquid coating material	7
8	Calculation	7
8.1	Calculation of the practical dry-film density, non-volatile-matter content and non-volatile matter by volume	7
8.2	Calculation of the spreading rate	8
9	Precision	9
9.1	Repeatability limit	9
9.2	Reproducibility limit	9
10	Test report	9
Annex A (informative)	Examples of test conditions	10
Annex B (informative)	Overview of the existing methods for determination of non-volatile-matter content and volume of non-volatile matter	11
Bibliography		13