

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