ISO 3233-3:2015-05 (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

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Principle 2

5 Procedure 2
5.1 Determination of the theoretical dry film density 2
5.2 Determination of the density 3
5.3 Determination of film thickness 3

6 Calculation 3
6.1 Calculation of the theoretical dry film density 3
6.2 Calculation of the non-volatile matter by volume using the theoretical dry film density 4
6.3 Determination of the theoretical spreading rate 4

7 Precision 5
7.1 Repeatability limit 5
7.2 Reproducibility limit 5

8 Test report 5

Annex A (informative)Derivationofthetheoreticaldryfilmthickness 6

Annex B (informative) Derivation of the theoretical spreading rate 8

Annex C (informative) Example for the calculation of the theoretical spreading rate 11

Annex D (informative) Overview on the existing methods for determination of non-volatile- matter content and volume of non-volatile matter 12

Bibliography 14