# ISO 2813:2014-10 (E)

## Paints and varnishes - Determination of gloss value at 20 degrees, 60 degrees and 85 degrees

## Contents

Page


Foreword ..... iv

1 Scope ..... 1

2 Normative references ..... 1

3 Termsanddefinitions ..... 1

4 Principle ..... 2

5 Basic principles of the gloss measurement ..... 2

6 Apparatus and calibration equipment ..... 4
6.1 Glossmeter ..... 4
6.2 Measurement standards (certified reference material, working measurement standards)7
7 Test panels ..... 8

7.1 Substrate ..... 8
7.2 Preparation and coating ..... 8
7.3 Drying and conditioning ..... 8
7.4 Thickness of coating ..... 8

8 Calibration and adjustment of the glossmeter ..... 8
8.1 Preparation of the apparatus ..... 8
8.2 Zero point check ..... 8
8.3 Calibration and adjustment ..... 9

9 Procedure ..... 9
9.1 Selection of geometry ..... 9
9.2 Gloss measurement ..... 9

10 Precision ..... 10
10.1 General ..... 10
10.2 Repeatability limit ..... 10
10.3 Reproducibility limit ..... 10

11 Test report ..... 10

Annex A (normative) Possible sources of error ..... 12

Annex B (normative) Calibration standards ..... 15

Annex C (informative) Gloss calculation of primary reference standards ..... 17

Annex D (informative) Details on precision ..... 21

Bibliography ..... 23