ISO 14577-4:2007-05 (E)

Metallic materials - Instrumented indentation test for hardness and materials parameters - Pa rt 4: Test method for metallic and non-metallic coatings

Contents

Page

Foreword iv

Introduction v

1 Scope 1

2 Normative references 1

3 Symbols and designations 2

4 Verification and calibration of testing machines 2

5 Test pieces 4
5.1 General 4
5.2 Surface roughness 4
5.3 Polishing 5
5.4 Surface cleanliness 5
5.5 Special requirements for paints and varnishes 5

6 Procedure 6
6.1 Test conditions 6
6.2 Measurement procedure 9

7 Data analysis and evaluation of results for indentation normal to the surface 11
7.1 General 11
7.2 Coating indentation modulus 12
7.3 Coating indentation hardness 13

8 Test report 16

Annex A (normative) Frame compliance calibration procedure 17

Annex B (normative) Contact point and fully elastic regime 21

Bibliography 23