

DIN EN ISO 14577-4:2017-04 (E)

Metallic materials - Instrumented indentation test for hardness and materials parameters - Part 4: Test method for metallic and non-metallic coatings (ISO 14577-4:2016)

Contents	Page
European foreword	3
Foreword	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Symbols and designations	7
4 Calibration and direct verification of testing machines	7
5 Test pieces	7
5.1 General	7
5.2 Surface roughness	7
5.3 Polishing	8
5.4 Surface cleanliness	8
6 Procedure	9
6.1 Test conditions	9
6.2 Measurement procedure	10
6.2.1 General	10
6.2.2 Force control experiments	10
7 Data analysis and evaluation of results for indentation normal to the surface	10
7.1 General	10
7.2 Coating indentation modulus	11
7.3 Coating indentation hardness	14
8 Uncertainty of the results	20
9 Test report	20
Annex A (informative) Contact point and fully elastic regime	21
Bibliography	23