

DIN EN ISO 14577-1:2015-11 (E)

Metallic materials - Instrumented indentation test for hardness and materials parameters - Part 1: Test method (ISO 14577-1:2015)

Contents		Page
European foreword	.....	3
Introduction	.....	4
1 Scope	.....	5
2 Normative references	.....	5
3 Symbols and designations	.....	6
4 Principle	.....	8
5 Testing machine	.....	8
6 Test piece	.....	9
7 Procedure	.....	9
8 Uncertainty of the results	.....	12
9 Test report	.....	13
Annex A (normative) Materials parameters determined from the force/indentation depth data set	.....	15
Annex B (informative) Types of control use for the indentation process	.....	28
Annex C (normative) Machine compliance and indenter area function	.....	29
Annex D (informative) Notes on diamond indenters	.....	31
Annex E (normative) Influence of the test piece surface roughness on the accuracy of the results	.....	32
Annex F (informative) Correlation of indentation hardness H_{IT} to Vickers hardness	.....	33
Annex G (normative) Drift and creep rate determination	.....	35
Annex H (informative) Estimation of uncertainty of the calculated values of hardness and materials parameters	.....	37
Annex I (normative) Calculation of radial displacement correction	.....	47
Bibliography	.....	49