DIN EN ISO 14577-5:2026-06 (E)

Metallic materials - Instrumented indentation test for hardness and materials parameters - Part 5: Linear elastic dynamic instrumented indentation testing (DIIT) (ISO 14577-5:2022)

Contents

Page

Foreword ... **iv**

Introduction ... **v**

1 Scope ... **1**

2 Normative references ... **1**

3 Terms, definitions and symbols ... **1**
3.1 Terms and definitions ... 1
3.2 Symbols ... 2

4 Principle ... **2**

5 Testing machine ... **3**

6 Procedure of data evaluation and determination of materials parameter ... **4**
6.1 General ... 4
6.2 Determination of dynamic indentation hardness, H_d ... 4
6.3 Designation of dynamic indentation hardness, H_d ... 4
6.4 Determination of dynamic reduced modulus, E_{rd} ... 5
6.5 Designation of dynamic reduced modulus, E_{rd} ... 5

7 Test procedure ... **5**

8 Uncertainty of results ... **6**

9 Test report ... **7**

Annex A (informative) **Estimation of dynamic behaviour of the actuator** ... **8**

Annex B (informative) **Estimation of uncertainty** ... **9**

Bibliography ... **11**