DIN EN ISO 18203:2026-05 (E)

Steel - Determination of the thickness of surface-hardened layers (ISO 18203:2026)

Contents

Page

Foreword ... **iv**

Introduction ... **v**

1 Scope ... **1**

2 Normative references ... **1**

3 Terms and definitions ... **1**

4 Symbols, abbreviated terms and designations ... **3**

5 Principle ... **4**

6 Apparatus ... **4**

7 Test specimen ... **4**
7.1 General ... 4
7.2 Measurement capability ... 4
7.3 Preparation of the surface to be examined ... 5

8 Method of measurement ... **6**
8.1 CHD, SHD and NHD by hardness measurement ... 6
8.2 THD by hardness measurement ... 7
8.3 THD by microscopic measurement ... 7

9 Evaluation of the results ... **8**
9.1 Case hardening depth (CHD), surface hardening depth (SHD) and nitriding hardness depth (NHD) ... 8
9.2 Total thickness of surface hardening depth (THD) ... 9

10 Test report ... **9**

Annex A (normative) **Interpolation method for determining the case hardening depth (CHD) – surface hardening depth (SHD) – nitriding hardness depth (NHD)** ... **11**

Bibliography ... **13**