DIN EN ISO 6508-1:2024-04 (E)

Metallic materials - Rockwell hardness test - Part 1: Test method (ISO 6508-1:2023)

Contents

Page

European foreword ... **3**

Foreword ... **4**

1 Scope ... **5**

2 Normative references ... **5**

3 Terms and definitions ... **5**

4 Symbols, abbreviated terms and designations ... **5**

5 Rockwell hardness ... **7**

6 Testing machine ... **8**

7 Test piece ... **9**

8 Procedure ... **9**

9 Uncertainty of the results ... **11**

10 Test report ... **11**

11 Conversions to other hardness scales or tensile strength values ... **12**

Annex A (normative) **Special HR30TSm and HR15TSm test for thin products** ... **13**

Annex B (normative) **Minimum thickness of the test piece in relation to the Rockwell hardness** ... **14**

Annex C (normative) **Corrections to be added to Rockwell hardness values obtained on convex cylindrical surfaces** ... **17**

Annex D (normative) **Corrections to be added to Rockwell hardness C scale values obtained on spherical test surfaces of various diameters** ... **20**

Annex E (normative) **Daily verification procedure** ... **21**

Annex F (normative) **Inspection of diamond indenters** ... **24**

Annex G (informative) **Uncertainty of the measured hardness values** ... **25**

Annex H (informative) **CCM — Working group on hardness** ... **30**

Annex I (informative) **Rockwell hardness measurement traceability** ... **31**

Bibliography ... **35**