DIN EN ISO 642:2024-11 (E)

Steel - Hardenability test by end quenching (Jominy test) (ISO 642:2024)

Contents

Page

European foreword ... **3**

Foreword ... **4**

1 Scope ... **6**

2 Normative references ... **6**

3 Terms and definitions ... **6**

4 Symbols and designations ... **6**

5 Principle ... **7**

6 Form of test pieces and their preparation ... **7**
6.1 Sampling ... 7
6.2 Dimensions ... 8
6.3 Heat treatment ... 9
6.4 Machining ... 9

7 Apparatus ... **9**

8 Heating and quenching of test piece ... **11**
8.1 Heating ... 11
8.2 Quenching ... 11

9 Measurement of hardness after quenching ... **12**

10 Expression of results ... **13**
10.1 Hardness at any one point ... 13
10.2 Drawing of the hardness curves ... 13
10.3 Description of the hardenability characteristics of a particular steel ... 14
10.4 Codification of test result ... 14

11 Test report ... **15**

Annex A (informative) **Specification for the hardenability of a product** ... **16**

Annex B (informative) **Additional information to Clause 11** ... **20**

Annex C (informative) **Computational methods for determination of hardenability** ... **23**

Bibliography ... **24**