DIN EN 10025-6:2020-02 (E)

Hot rolled products of structural steels - Part 6: Technical delivery conditions for flat products of high yield strength struct ural steels in the quenched and tempered condition

Contents

Page

European foreword 4

1 Scope 6

2 Normative references 6

3 Terms and definitions 7

4 Classification and designation 7
4.1 Classification 7
4.1.1 Main quality classes 7
4.1.2 Grades and qualities 8
4.2 Designation 8

5 Information to be supplied by the purchaser 8
5.1 Mandatory information 8
5.2 Options 9

6 Manufacturing process 9
6.1 Steel making process 9
6.2 Deoxidation and grain structure 9
6.3 Delivery conditions 9

7 Requirements 9
7.1 General 9
7.2 Chemical composition 9
7.3 Mechanical properties 10
7.3.1 General 10
7.3.2 Impact properties 10
7.4 Technological properties 11
7.5 Surface properties 12
7.6 Internal soundness 12
7.7 Tolerances on dimensions and shape, mass 12

8 Inspection 13
8.1 Type of inspection and inspection document 13
8.2 Content of inspection document 13
8.3 Tests to be carried out 13

9 Frequency of testing and preparation of samples and test pieces 14
9.1 Frequency of testing 14
9.1.1 Chemical analysis 14
9.1.2 Mechanical tests 14
9.2 Preparation of samples and test pieces 14
9.2.1 Selection and preparation of samples for chemical analysis 14
9.2.2 Location of samples and orientation of test pieces for mechanical tests 14
9.2.3 Preparation of test pieces for mechanical tests 14
9.3 Identification of samples and test pieces 15

10 Test methods 15
10.1 Chemical analysis 15
10.2 Mechanical tests 15
10.2.1 Tensile test 15
10.2.2 Impact test 16
10.3 Ultrasonic testing 16
10.4 Retests 16

11 Marking, labelling, packaging 16

12 Complaints 17

13 Options 17

Annex A (normative) Location of samples and test pieces 23

Annex B (informative) Minimum recommended inside bend radii for flanging 24

Annex C (informative) List of Options of EN 10025-2 to -6 25