

DIN EN 10025-6:2023-06 (E)

Hot rolled products of structural steels - Part 6: Technical delivery conditions for flat products of high yield strength structural steels in the quenched and tempered condition (includes Amendment A1:2022)

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	9
5.1 Mandatory information	9
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	10
7.1 General	10
7.2 Chemical composition	10
7.3 Mechanical properties	10
7.3.1 General	10
7.3.2 Impact properties	11
7.4 Technological properties	11
7.5 Surface properties	12
7.6 Internal soundness	12
7.7 Tolerances on dimensions and shape, mass	13
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	14
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	15
9.3 Identification of samples and test pieces	15

10	Test methods	15
10.1	Chemical analysis	15
10.2	Mechanical tests	16
10.2.1	Tensile test	16
10.2.2	Impact test	16
10.3	Ultrasonic testing	16
10.4	Retests	16
11	Marking, labelling, packaging	17
12	Complaints	17
13	Options	17
	Annex A (normative) Location of samples and test pieces	24
	Annex B (informative) Minimum recommended inside bend radii for flanging	25
	Annex C (informative) List of Options of EN 10025-2 to -6	26
	Bibliography	28