

DIN EN 10277:2018-09 (E)

Bright steel products - Technical delivery conditions

Contents		Page
European foreword		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	5
4	Classification and designation	6
5	Information to be supplied by the purchaser	7
6	Manufacturing process	8
7	Requirements	8
8	Inspection	11
9	Test methods	12
10	Marking	13
Annex A (informative) Steel grades and chemical composition according to EN 10025-2, EN ISO 683-1, EN ISO 683-2, EN ISO 683-3 and EN ISO 683-4		38
Annex B (normative) Ruling sections for mechanical properties		44
B.1	Definition	44
B.2	Determination of the diameter of the equivalent ruling section	44
Annex C (normative) Supplementary or special requirements		47
C.1	Introduction	47
C.2	Mechanical properties of reference test pieces in the quenched and tempered condition	47
C.3	Fine grain steel	47
C.4	Non-destructive tests (NDT)	47
C.5	Disposition of tolerances	47
C.6	Condition of bar ends	48
C.7	Product analysis	48
C.8	Reduction ratio and deformation ratio	48
C.9	Temporary corrosion protection	48
C.10	Special agreements for marking	48
Annex D (normative) Methods for evaluating straightness		49
D.1	Scope	49
D.2	Recommended method	49
D.3	Alternative method for round bars (effective for diameters 10 mm)	49
Annex E (informative) Designation of steels given in this standard and of comparable grades covered in various designation systems		50
Bibliography		53