

DIN EN 10272:2016-10 (E)

Stainless steel bars for pressure purposes

Contents		Page
European foreword		4
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	7
4	Dimensions and tolerances on dimensions	7
5	Calculation of mass	7
6	Classification and designation	8
6.1	Classification	8
6.2	Designation	8
7	Information to be supplied by the purchaser	8
7.1	Mandatory information	8
7.2	Options	8
7.3	Example of ordering	9
8	Requirements	9
8.1	Steelmaking process	9
8.2	Delivery condition	9
8.3	Chemical composition	9
8.4	Corrosion resistance	10
8.5	Mechanical properties	10
8.6	Surface quality	10
8.7	Internal soundness	10
8.8	Weldability	10
8.9	Physical properties	10
9	Inspection	11
9.1	Types of inspection and inspection documents	11
9.2	Tests to be carried out	11
9.3	Frequency of testing	11
9.4	Re-tests, sorting and reprocessing	11
9.5	Sampling and preparation of samples and test pieces	12
9.6	Test methods	12
9.6.1	Chemical analysis	12
9.6.2	Tensile test	12
9.6.3	Impact test	12
9.6.4	Other tests	13
10	Marking	13
Annex A (informative) Guidelines for further treatment (including heat treatment) in fabrication		31
Annex B (informative) Tensile strength of austenitic-ferritic steels at elevated temperatures		35

Annex C (informative) Reference data of strength values for creep rupture	36
Annex D (informative) Significant changes to the previous version EN 10272:2007	37
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of Directive 2014/68/EU	38
Bibliography	39