

DIN EN 10216-2:2014-03 (E)

Seamless steel tubes for pressure purposes - Technical delivery conditions - Part 2: Non-alloy and alloy steel tubes with specified elevated temperature properties

Contents		Page
Foreword		4
Introduction		5
1	Scope	6
2	Normative references	6
3	Terms and definitions	7
4	Symbols	7
5	Classification and designation	8
5.1	Classification	8
5.2	Designation	8
6	Information to be supplied by the purchaser	8
6.1	Mandatory information	8
6.2	Options	9
6.3	Examples of an order	9
7	Manufacturing process	10
7.1	Steel making process	10
7.2	Tube manufacture and delivery conditions	10
8	Requirements	11
8.1	General	11
8.2	Chemical composition	12
8.3	Mechanical properties	16
8.4	Appearance and internal soundness	21
8.5	Straightness	21
8.6	Preparation of ends	21
8.7	Dimensions, masses and tolerances	22
9	Inspection	27
9.1	Types of inspection	27
9.2	Inspection documents	27
9.3	Summary of inspection and verification testing	28
10	Sampling	29
10.1	Frequency of tests	29
10.2	Preparation of samples and test pieces	29
11	Verification test methods	30
11.1	Chemical analysis	30
11.2	Tensile test	31
11.3	Flattening test	31
11.4	Ring tensile test	32
11.5	Drift expanding test	32
11.6	Ring expanding test	33
11.7	Impact test	34

11.8	Leak tightness test	34
11.9	Dimensional inspection	35
11.10	Visual examination	35
11.11	Non-destructive testing	35
11.12	Material identification	35
11.13	Retests, sorting and reprocessing	36
12	Marking	36
12.1	Marking to be applied	36
12.2	Additional marking	36
13	Protection	36
Annex A (informative) Creep rupture strength values		37
Annex B (informative) Technical changes from the previous edition		43
B.1	Introduction	43
B.2	Technical changes	43
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 97/23/EC		44
Bibliography		45