

Contents

Page

European foreword.....	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	6
4 Symbols.....	6
5 Classification and designation.....	7
5.1 Classification.....	7
5.2 Designation.....	7
6 Information to be supplied by the purchaser	7
6.1 Mandatory information	7
6.2 Options.....	7
6.3 Example of an order	8
7 Manufacturing process.....	9
7.1 Steelmaking process	9
7.2 Tube manufacture and delivery conditions	9
8 Requirements.....	9
8.1 General.....	9
8.2 Chemical composition	10
8.3 Mechanical properties.....	11
8.4 Appearance and internal soundness.....	11
8.5 Dimensions and tolerances	12
8.5.1 Outside diameter, inside diameter, wall thickness and eccentricity	12
8.5.2 Lengths.....	17
8.5.3 Straightness.....	18
8.5.4 Preparation of ends.....	19
9 Inspection	19
9.1 Types of inspection.....	19
9.2 Inspection documents	19
9.2.1 Types of inspection documents.....	19
9.2.2 Content of inspection documents.....	19
9.3 Summary of inspection and testing.....	20
10 Sampling.....	21
10.1 Test unit.....	21
10.2 Preparation of samples and test pieces	21
10.2.1 Location, orientation and preparation of samples and test pieces for mechanical tests	21
10.2.2 Test pieces for roughness measurement.....	21
11 Test methods	21
11.1 Tensile test	21
11.2 Flattening test.....	22
11.3 Drift expanding test.....	22

11.4 Dimensional inspection..... 23

11.5 Roughness measurement 23

11.6 Visual examination 23

11.7 Non-destructive testing..... 23

11.7.1 Testing for longitudinal imperfections..... 23

11.7.2 Leak tightness 23

11.8 Retests, sorting and reprocessing..... 23

12 Marking 23

13 Protection and packaging..... 24

Annex A (informative) Requirement for additional steel grades..... 25

Bibliography 28