

DIN EN 818-1:2008-12 (E)

Short link chain for lifting purposes - Safety - Part 1: General conditions of acceptance (includes Amendment A1:2008)

Contents		Page
Foreword		4
Introduction		5
1	Scope	7
2	Normative references	7
3	"Terms and definitions"	7
4	Hazards	9
5	Safety requirements	10
5.1	Dimensions	10
5.2	Material, manufacture and heat treatment	10
5.2.1	Material	10
5.2.2	Welding and trimming	10
5.2.3	Heat treatment	10
5.2.4	Surface finish	10
5.2.5	Links inserted in the course of manufacture	10
5.3	Mechanical properties	11
5.3.1	Manufacturing proof force (MPF)	11
5.3.2	Breaking force (BF) and total ultimate elongation (A)	11
5.3.3	Bend deflection	11
6	Verification of safety requirements	13
6.1	!!!Qualification of personnel	13
6.2	Material diameter	13
6.3	Condition of chain tested	13
6.4	Selection of samples	13
6.5	Static tensile test	14
6.5.1	Testing machine	14
6.5.2	Tensile test samples	14
6.5.3	Procedure	14
6.5.4	Total ultimate elongation (A)	14
6.6	Bend test	14
6.6.1	Test equipment	14
6.6.2	Procedure	15
6.7	Acceptance criteria	15
6.8	Re-tests	15
7	Marking	15
7.1	Grade marking	15
7.2	Manufacturer's marking	15
7.3	Additional marking	15
8	Manufacturer's certificate	16
9	"Information" for use	16
Annex A (normative)	Requirements for the static tensile test machine	17

Annex B (normative) Requirements for the bend test equipment	19
Annex C (informative) Proposed contractual clauses	20
C.1 General	20
C.2 Inspection	20
C.3 Inspection marking	20
C.4 Steel makers cast analysis	20
Annex ZA (informative) !Relationship between this European Standard and the Essential Requirements of EU Directive 98/37/EC	21
Annex ZB (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2006/42/EC	22
!Bibliography	23