

DIN EN 10270-3:2012-01 (E)

Steel wire for mechanical springs - Part 3: Stainless spring steel wire

Contents		Page
Foreword		3
1	Scope	4
2	Normative references	4
3	Information to be supplied by the purchaser	4
4	Requirements	5
4.1	Manufacturing process	5
4.2	Form of delivery	5
4.3	Surface finish	5
4.4	Chemical composition	5
4.5	Mechanical properties	6
4.6	Technological properties	8
4.7	Supply conditions of wire on coils/reels and spools	8
4.8	Surface quality	10
4.9	Inner soundness	10
4.10	Dimensions and dimensional tolerances	10
5	Testing and inspection	12
5.1	Inspection and inspection documents	12
5.2	Extent of testing for specific testing	12
5.3	Sampling	14
5.4	Test methods	14
5.5	Retests	15
6	Marking and packaging	15
Annex A (informative)	Additional information	16
A.1	Indications for classification of steel grades	16
A.2	Alteration of tensile strength by heat treatment	17
A.3	Physical properties	17
A.4	Magnetic properties	17
A.5	Guidelines for processing and heat treatment	17
Annex B (informative)	Cross reference of steel grade designations	21
Bibliography		22