

DIN EN 10107:2014-07 (E)

Grain-oriented electrical steel strip and sheet delivered in the fully processed state

Contents		Page
Foreword		3
1	Scope	4
2	Normative references	4
3	Terms and definitions	5
4	Classification and designation	5
4.1	Classification	5
4.2	Designation	5
5	Information to be supplied by the purchaser	6
5.1	Mandatory information	6
5.2	Options	6
6	General requirements	7
6.1	Production process	7
6.2	Form of supply	7
6.3	Delivery condition	7
6.4	Surface condition	7
6.5	Suitability for cutting	7
7	Technical requirements	8
7.1	Magnetic properties	8
7.1.1	General	8
7.1.2	Magnetic polarization	8
7.1.3	Specific total loss	8
7.2	Geometric characteristics and tolerances	10
7.2.1	Thickness	10
7.2.2	Width	11
7.2.3	Length	11
7.2.4	Edge camber	11
7.2.5	Flatness (wave factor)	12
7.2.6	Residual curvature	12
7.2.7	Burr height	12
7.3	Technological characteristics	12
7.3.1	Density	12
7.3.2	Stacking factor	12
7.3.3	Number of bends	12
7.3.4	Internal stresses	12
7.3.5	Insulation coating resistance	12
8	Inspection and testing	12
8.1	General	12
8.2	Sampling	13
8.3	Preparation of test specimens	13
8.3.1	Magnetic properties	13
8.3.2	Geometrical characteristics and tolerances	13
8.3.3	Technological characteristics	14
8.4	Test methods	14
8.4.1	General	14

8.4.2	Magnetic properties	14
8.4.3	Geometrical characteristics and tolerances	15
8.4.4	Technological characteristics	15
8.5	Retests	16
9	Marking, labelling and packaging	16
10	Complaints	16
Annex A (informative) Maximum specific total loss at 60 Hz and 1,7 T		17
Bibliography		18