

DIN EN ISO 2179:2016-08 (E)

Electroplated coatings of tin-nickel alloy - Specification and test methods (ISO 2179:1986)

Contents	Page
European foreword.....	3
Foreword	4
Introduction	5
1 Scope and field of application.....	6
2 References	6
3 Definition	7
4 Information to be supplied by the purchaser to the electroplater	7
4.1 Essential information	7
4.2 Additional information	7
5 Basis material.....	7
6 Sampling.....	8
7 Classification.....	8
7.1 Service condition number.....	8
7.2 Coating classification code.....	8
8 Heat treatment of steel.....	9
8.1 Stress relief before electroplating	9
8.2 Hydrogen embrittlement relief after electroplating.....	9
9 Requirements for undercoats.....	9
10 Requirements for coatings	9
10.1 Appearance.....	9
10.2 Thickness	10
10.3 Adhesion.....	10
10.4 Porosity.....	10
Annex A Determination of coating thickness	11
A.0 Introductory notes.....	11
A.0.1 Routine methods	11
A.0.2 Referee methods.....	11
A.1 Measurement of local thickness	12
A.1.1 Microscopical method	12
A.1.2 Beta backscatter method.....	12
A.1.3 X-ray spectrometric method	12
A.1.4 Coulometric method.....	12
A.2 Measurement of average thickness	12
Annex B Guidance notes.....	13
B.1 Properties of the coating	13
B.2 Properties and preparation of the basis material.....	14
B.2.1 Surface condition	14
B.2.2 "Difficult" basis materials	14
B.2.3 Aluminium, magnesium and zinc alloys	14
B.3 Electroplating practice.....	14
B.3.1 Coating thickness requirements.....	14