ISO 3887:2017-11 (E)

Steels - Determination of the depth of decarburization

Contents

Page

Foreword iv

1 Scope 1

2 Normative references 1

3 Termsanddefinitions 1

4 Sampling 2

5 Measuring methods 2
5.1 General 2
5.2 Metallographic method 3
5.2.1 General 3
5.2.2 Selection and preparation of the sample 3
5.2.3 Measurement 3
5.3 Methods for measuring the micro-indentation hardness 5
5.3.1 General 5
5.3.2 Selection and preparation of the sample 7
5.3.3 Measurement 7
5.4 Methods of determination of the carbon content 9
5.4.1 General 9
5.4.2 Chemical analysis 9
5.4.3 Spectrographic analysis 9
5.4.4 Interpretation of the results (chemical and spectrographic methods) 9
5.4.5 Electron probe microanalysis (EPMA) 9
5.4.6 Glow discharge optical emission spectrometry (GDOES) 10

6 Test report 10

Annex A (informative) Examples of typical decarburization microstructure 12