

ISO 3887:2023-09 (E)

Steels - Determination of the depth of decarburization

Contents	Page
Foreword	iv
1 Scope	1
2 Normative references	1
3 Terms and definitions	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.....	6
5.3.3 Measurement.....	6
5.4 Methods of determination of the carbon content.....	7
5.4.1 General.....	7
5.4.2 Chemical analysis.....	8
5.4.3 Spectrographic analysis.....	8
5.4.4 Interpretation of the results (chemical and spectrographic methods).....	8
5.4.5 Electron probe microanalysis (EPMA).....	8
5.4.6 Glow discharge optical emission spectrometry (GDOES).....	9
6 Test report	9
Annex A (informative) Examples of typical decarburization microstructure	11