

DIN EN ISO 3887:2023-12 (E)

Steels - Determination of the depth of decarburization (ISO 3887:2023)

Contents	Page
European foreword	3
Foreword	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	5
4 Sampling	6
5 Measuring methods	6
5.1 General	6
5.2 Metallographic method	7
5.2.1 General	7
5.2.2 Selection and preparation of the sample	7
5.2.3 Measurement	7
5.3 Methods for measuring the micro-indentation hardness	9
5.3.1 General	9
5.3.2 Selection and preparation of the sample	10
5.3.3 Measurement	10
5.4 Methods of determination of the carbon content	11
5.4.1 General	11
5.4.2 Chemical analysis	12
5.4.3 Spectrographic analysis	12
5.4.4 Interpretation of the results (chemical and spectrographic methods)	12
5.4.5 Electron probe microanalysis (EPMA)	12
5.4.6 Glow discharge optical emission spectrometry (GDOES)	13
6 Test report	13
Annex A (informative) Examples of typical decarburization microstructure	15