

# DIN ISO 16592:2015-12 (E)

## Microbeam analysis - Electron probe microanalysis - Guidelines for determining the carbon content of steels using a calibration curve method (ISO 16592:2012)

---

<b>Contents</b>		<b>Page</b>
National foreword .....		3
National Annex NA (informative) Bibliography .....		3
1	Scope .....	4
2	Procedure .....	4
2.1	General.....	4
2.2	Reference materials.....	4
2.3	Specimen preparation .....	4
2.4	Measurement of carbon $K\alpha$ X-ray intensity .....	5
2.5	Background subtraction .....	6
2.6	Establishment of the calibration curve .....	7
3	Evaluation of uncertainty.....	9
4	Test report .....	9
Annex A (informative) Method of estimating the uncertainty of the calculated value using a calibration curve .....		11
Annex B (informative) A practical example of the determination of the mass fraction of carbon and the evaluation of uncertainty in a steel.....		13
Bibliography .....		15