

DIN EN ISO 13383-2:2016-08 (E)

Fine ceramics (advanced ceramics, advanced technical ceramics) - Microstructural characterization - Part 2: Determination of phase volume fraction by evaluation of micrographs (ISO 13383-2:2012)

Contents

	Page
European foreword	3
Foreword	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	6
4 Apparatus	6
4.1 Sectioning equipment	6
4.2 Mounting equipment	6
4.3 Grinding and polishing equipment	6
4.4 Microscope	6
4.5 Transparent grid	6
5 Test piece preparation	7
5.1 Sampling	7
5.2 Cutting	7
5.3 Mounting	7
5.4 Grinding and polishing	7
5.5 Etching	7
6 Photomicrography	8
6.1 General aspects	8
6.2 Inspection	8
6.3 Number of micrographs	8
6.4 Optical microscopy	8
6.5 Scanning electron microscopy	9
7 Measurement of micrographs	9
8 Calculation of results	10
9 Interferences and uncertainties	10
10 Test report	11
Annex A (informative) Use of automatic image analysis (AIA)	13
Annex B (informative) Round-robin verification of this procedure	14
Annex C (informative) Results sheet -- ISO 13383-2	15
Bibliography	16