

# ISO 5189:2023-09 (E)

## Fine ceramics (advanced ceramics, advanced technical ceramics) - Methods for chemical analysis of metal impurities in silicon dioxide powders using inductively coupled plasma-optical emission spectrometry

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Analytes and ranges .....	1
5	Preparation of test sample .....	2
5.1	General .....	2
5.2	Sampling .....	2
5.3	Drying .....	2
5.4	Weighing .....	2
6	Reporting analytical values .....	2
6.1	Blank test .....	2
6.2	Evaluation of analytical values .....	2
6.3	Expression of analytical values .....	3
7	Decomposition of test sample .....	3
7.1	Reagents .....	3
7.2	Apparatus and instruments .....	3
7.3	Sample decomposition .....	3
7.4	Blank test .....	4
8	Determination of impurity elements .....	4
8.1	Reagents .....	4
8.2	Apparatus and instruments .....	5
8.3	Measurement .....	5
8.4	Drawing of the calibration curve .....	5
8.5	Calculation .....	5
9	Test report .....	6
Annex A (informative) Analytical results obtained from the interlaboratory test .....		7
Bibliography .....		10