

DIN EN ISO 14720-2:2013-06 (E)

Testing of ceramic raw and basic materials - Determination of sulfur in powders and granules of non-oxidic ceramic raw and basic materials - Part 2: Inductively coupled plasma optical emission spectrometry (ICP/OES) or ion chromatography after burning in an oxygen flow (ISO 14720-2:2013)

Contents	Page
Foreword	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Principle	4
5 Interferences	5
5.1 ICP/OES	5
5.2 Ion chromatography	5
6 Apparatus	6
7 Reagents	6
8 Sampling and sample preparation	7
9 Preparation	7
9.1 Combustion device	7
9.2 Oxygen (7.10)	7
9.3 Inductively coupled plasma optical emission spectrometer (6.7)	7
9.4 Ion chromatograph (6.8)	7
10 Calibration	7
10.1 Inductively coupled plasma optical emission spectrometer	7
10.2 Ion chromatograph	7
11 Performance	8
11.1 Determination of the blank value	8
11.2 Determination of the sulfur content	8
12 Calculation and report of the results	8
13 Precision	9
13.1 Repeatability	9
13.2 Reproducibility	9
14 Test report	9
Annex A (informative) Example of a combustion device	10
Annex B (informative) Example for suitable operating parameters for the determination of sulfur by ion chromatography	11

Annex C (informative) Example for suitable operating parameters for the determination of sulfur by inductively coupled plasma optical emission spectroscopy	12
Annex D (informative) Results of the round-robin test	13
Annex E (informative) Information regarding the validation of the uncertainty of the mean value	16
Annex F (informative) Commercial Certified Reference Materials (CRM)	17
Bibliography	18