

# ISO 14720-2:2026-03 (E)

## Testing of ceramic materials - Determination of sulfur in non-oxidic ceramic raw materials and ceramic materials - Part 2: Inductively coupled plasma optical emission spectrometry (ICP-OES) or ion chromatography (IC) after burning in the oxygen flow

<b>Contents</b>	<b>Page</b>
Foreword.....	iv
<b>1 Scope</b> .....	<b>1</b>
<b>2 Normative references</b> .....	<b>1</b>
<b>3 Terms and definitions</b> .....	<b>1</b>
<b>4 Principle</b> .....	<b>2</b>
<b>5 Interferences</b> .....	<b>2</b>
5.1 Inductively coupled plasma optical emission spectrometry (ICP-OES).....	2
5.1.1 Spectral interferences.....	2
5.1.2 Physical interferences.....	2
5.2 Ion chromatography (IC).....	3
<b>6 Apparatus</b> .....	<b>3</b>
<b>7 Reagents</b> .....	<b>3</b>
<b>8 Sampling and sample preparation</b> .....	<b>4</b>
<b>9 Preparation</b> .....	<b>4</b>
9.1 Combustion device.....	4
9.2 Oxygen.....	4
9.3 Inductively coupled plasma optical emission spectrometer.....	4
9.4 Ion chromatograph.....	4
<b>10 Calibration</b> .....	<b>5</b>
10.1 Inductively coupled plasma optical emission spectrometer.....	5
10.2 Ion chromatograph.....	5
<b>11 Performance</b> .....	<b>5</b>
11.1 Determination of the blank value.....	5
11.2 Determination of the sulfur content.....	5
<b>12 Calculation and report of the results</b> .....	<b>6</b>
<b>13 Precision</b> .....	<b>6</b>
13.1 Repeatability.....	6
13.2 Reproducibility.....	6
<b>14 Test report</b> .....	<b>6</b>
<b>Annex A (informative) Example of a combustion device</b> .....	<b>8</b>
<b>Annex B (informative) Example for suitable operating parameters for the determination of sulfur by ion chromatography</b> .....	<b>9</b>
<b>Annex C (informative) Example for suitable operating parameters for the determination of sulfur by inductively coupled plasma optical emission spectroscopy</b> .....	<b>10</b>
<b>Annex D (informative) Results of the round-robin test</b> .....	<b>11</b>
<b>Annex E (informative) Information regarding validation of the uncertainty of the mean value</b> .....	<b>14</b>
<b>Annex F (informative) Commercial Certified Reference Materials (CRM)</b> .....	<b>15</b>
<b>Bibliography</b> .....	<b>16</b>