

# DIN EN ISO 439:2020-06 (E)

## Steel and cast iron - Determination of silicon content - Gravimetric method (ISO 439:2020)

---

<b>Contents</b>	<b>Page</b>
<b>European foreword</b> .....	<b>3</b>
<b>Foreword</b> .....	<b>4</b>
<b>1 Scope</b> .....	<b>5</b>
<b>2 Normative references</b> .....	<b>5</b>
<b>3 Terms and definitions</b> .....	<b>5</b>
<b>4 Principle</b> .....	<b>5</b>
<b>5 Reagents</b> .....	<b>5</b>
<b>6 Apparatus</b> .....	<b>6</b>
<b>7 Sampling</b> .....	<b>6</b>
<b>8 Procedure</b> .....	<b>6</b>
8.1 Test portion .....	6
8.2 Blank test .....	6
8.3 Determination .....	7
8.3.1 Acid dissolution of the test portion and formation of hydrated silicon dioxide .....	7
8.3.2 Filtration and washing .....	7
8.3.3 Recovery of silicon compounds in the filtrate .....	7
8.3.4 Ignition, volatilization of silicon dioxide and weighing .....	8
<b>9 Expression of results</b> .....	<b>8</b>
9.1 Method of calculation .....	8
9.2 Precision .....	9
<b>10 Test report</b> .....	<b>9</b>
<b>Annex A (informative) Additional information on the international interlaboratory test</b> .....	<b>10</b>
<b>Annex B (informative) Graphical representation of precision data</b> .....	<b>13</b>
<b>Bibliography</b> .....	<b>14</b>