

# ISO 11724:2016-12 (E)

## Solid mineral fuels - Determination of total fluorine in coal, coke and fly ash

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Terms and definitions .....</b>	<b>1</b>
<b>4</b>	<b>Principle .....</b>	<b>1</b>
<b>5</b>	<b>Reagents .....</b>	<b>1</b>
<b>6</b>	<b>Apparatus .....</b>	<b>2</b>
<b>7</b>	<b>Sample .....</b>	<b>5</b>
<b>7.1</b>	<b>Coal and coke .....</b>	<b>5</b>
<b>7.2</b>	<b>Fly ash .....</b>	<b>5</b>
<b>8</b>	<b>Procedure .....</b>	<b>5</b>
<b>8.1</b>	<b>Number of determinations .....</b>	<b>5</b>
<b>8.2</b>	<b>Preparation of test sample .....</b>	<b>5</b>
<b>8.3</b>	<b>Blank tests .....</b>	<b>5</b>
<b>8.4</b>	<b>Pyrohydrolysis procedure .....</b>	<b>5</b>
<b>8.4.1</b>	<b>Apparatus conditioning .....</b>	<b>5</b>
<b>8.4.2</b>	<b>Pyrohydrolysis .....</b>	<b>5</b>
<b>8.4.3</b>	<b>Pyrohydrolysate processing .....</b>	<b>6</b>
<b>8.5</b>	<b>Solution measurement .....</b>	<b>6</b>
<b>8.5.1</b>	<b>General .....</b>	<b>6</b>
<b>8.5.2</b>	<b>Direct-comparison ISE method .....</b>	<b>6</b>
<b>8.5.3</b>	<b>Analyte-addition ISE method .....</b>	<b>7</b>
<b>8.5.4</b>	<b>IC method .....</b>	<b>7</b>
<b>9</b>	<b>Calculations .....</b>	<b>8</b>
<b>9.1</b>	<b>General .....</b>	<b>8</b>
<b>9.2</b>	<b>Direct-comparison ISE method .....</b>	<b>8</b>
<b>9.3</b>	<b>Analyte-addition ISE method .....</b>	<b>9</b>
<b>9.4</b>	<b>IC method .....</b>	<b>9</b>
<b>10</b>	<b>Expression of result .....</b>	<b>9</b>
<b>11</b>	<b>Precision .....</b>	<b>10</b>
<b>11.1</b>	<b>Repeatability limit .....</b>	<b>10</b>
<b>11.2</b>	<b>Reproducibility critical difference .....</b>	<b>10</b>
<b>12</b>	<b>Test report .....</b>	<b>10</b>
<b>Bibliography .....</b>		<b>11</b>