

# ISO 11534:2006-11 (E)

## Iron ores - Determination of tin - Flame atomic absorption spectrometric method

---

<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>Principle .....</b>	<b>1</b>
<b>4</b>	<b>Reagents .....</b>	<b>2</b>
<b>5</b>	<b>Apparatus .....</b>	<b>3</b>
<b>6</b>	<b>Sampling and samples .....</b>	<b>3</b>
<b>6.1</b>	<b>Laboratory sample .....</b>	<b>3</b>
<b>6.2</b>	<b>Preparation of predried test samples .....</b>	<b>4</b>
<b>7</b>	<b>Procedure .....</b>	<b>4</b>
<b>7.1</b>	<b>Number of determinations .....</b>	<b>4</b>
<b>7.2</b>	<b>Test portion .....</b>	<b>4</b>
<b>7.3</b>	<b>Blank test and check test .....</b>	<b>4</b>
<b>7.4</b>	<b>Determination .....</b>	<b>4</b>
<b>7.4.1</b>	<b>Decomposition of the test portion .....</b>	<b>4</b>
<b>7.4.2</b>	<b>Treatment of the test solution .....</b>	<b>5</b>
<b>7.4.3</b>	<b>Adjustment of atomic absorption spectrometer .....</b>	<b>5</b>
<b>7.4.4</b>	<b>Atomic absorption measurements .....</b>	<b>5</b>
<b>7.4.5</b>	<b>Preparation of calibration solutions .....</b>	<b>6</b>
<b>8</b>	<b>Expression of results .....</b>	<b>6</b>
<b>8.1</b>	<b>Calculation of mass fraction of tin .....</b>	<b>6</b>
<b>8.2</b>	<b>General treatment of results .....</b>	<b>6</b>
<b>8.2.1</b>	<b>Repeatability and permissible tolerances .....</b>	<b>6</b>
<b>8.2.2</b>	<b>Determination of the analytical result .....</b>	<b>7</b>
<b>8.2.3</b>	<b>Between-laboratories precision .....</b>	<b>7</b>
<b>8.2.4</b>	<b>Check for trueness .....</b>	<b>8</b>
<b>8.2.5</b>	<b>Calculation of final result .....</b>	<b>8</b>
<b>8.3</b>	<b>Oxide factor .....</b>	<b>9</b>
<b>9</b>	<b>Test report .....</b>	<b>9</b>
<b>Annex A (normative) Flowsheet of the procedure for the acceptance of analytical values for test samples .....</b>		<b>10</b>
<b>Annex B (informative) Derivation of repeatability and permissible tolerance equations .....</b>		<b>11</b>
<b>Annex C (informative) Precision data obtained by international analytical trials .....</b>		<b>12</b>