

# ISO/TS 18223:2015-12 (E)

## Nickel alloys - Determination of Nickel content - Inductively coupled plasma atomic emission 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 sample preparation .....</b>	<b>4</b>
<b>7</b>	<b>Procedure .....</b>	<b>4</b>
<b>7.1</b>	<b>Sample composition .....</b>	<b>4</b>
<b>7.2</b>	<b>Test portion .....</b>	<b>4</b>
<b>7.3</b>	<b>Preparation of test solution, TNi .....</b>	<b>4</b>
<b>7.4</b>	<b>Preparation of rinsing solution, T0 .....</b>	<b>5</b>
<b>7.5</b>	<b>Preparation of calibration solutions for bracketing: Tl,Ni and Th,Ni .....</b>	<b>5</b>
<b>7.6</b>	<b>Adjustment of the apparatus .....</b>	<b>5</b>
<b>7.7</b>	<b>Measurement of the solutions .....</b>	<b>6</b>
<b>8</b>	<b>Expression of the results .....</b>	<b>6</b>
<b>8.1</b>	<b>Method of calculation .....</b>	<b>6</b>
<b>8.2</b>	<b>Precision .....</b>	<b>6</b>
<b>9</b>	<b>Test report .....</b>	<b>10</b>
<b>Annex A (informative)</b>	<b>Plasma optical emission spectrometer -- Suggested performance criteria to be checked .....</b>	<b>11</b>
<b>Annex B (informative)</b>	<b>Composition of the samples used for the validation precision test .....</b>	<b>13</b>
<b>Bibliography .....</b>		<b>15</b>