

# ISO 9328-4:2018-02 (E)

## Steel flat products for pressure purposes - Technical delivery conditions - Part 4: Nickel-alloy steels with specified low temperature properties

---

<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>Classification and designation .....</b>	<b>1</b>
<b>4.1</b>	<b>Classification .....</b>	<b>1</b>
<b>4.2</b>	<b>Designation .....</b>	<b>2</b>
<b>5</b>	<b>Information to be supplied by the purchaser .....</b>	<b>2</b>
<b>5.1</b>	<b>Mandatory information .....</b>	<b>2</b>
<b>5.2</b>	<b>Options .....</b>	<b>2</b>
<b>5.3</b>	<b>Example for ordering .....</b>	<b>2</b>
<b>6</b>	<b>Requirements .....</b>	<b>2</b>
<b>6.1</b>	<b>Steelmaking process .....</b>	<b>2</b>
<b>6.2</b>	<b>Delivery condition .....</b>	<b>2</b>
<b>6.3</b>	<b>Chemical composition .....</b>	<b>3</b>
<b>6.4</b>	<b>Mechanical properties .....</b>	<b>4</b>
<b>6.5</b>	<b>Surface condition .....</b>	<b>4</b>
<b>6.6</b>	<b>Internal soundness .....</b>	<b>4</b>
<b>6.7</b>	<b>Dimensions and tolerances on dimensions .....</b>	<b>4</b>
<b>6.8</b>	<b>Calculation of mass .....</b>	<b>4</b>
<b>7</b>	<b>Inspection .....</b>	<b>4</b>
<b>7.1</b>	<b>Types of inspection and inspection documents .....</b>	<b>4</b>
<b>7.2</b>	<b>Tests to be carried out .....</b>	<b>4</b>
<b>7.3</b>	<b>Retests, sorting and reprocessing .....</b>	<b>4</b>
<b>8</b>	<b>Sampling .....</b>	<b>5</b>
<b>9</b>	<b>Test methods .....</b>	<b>5</b>
<b>10</b>	<b>Marking .....</b>	<b>5</b>
<b>11</b>	<b>Handling .....</b>	<b>5</b>
<b>Annex A (normative)</b>	<b>Chemical composition and mechanical properties of products delivered in accordance with European design codes .....</b>	<b>6</b>
<b>Annex B (normative)</b>	<b>Chemical composition and mechanical properties of products delivered in accordance with ASME-type design codes .....</b>	<b>9</b>
<b>Annex C (informative)</b>	<b>Steel designations in accordance with this document and designation of comparable steel grades in national or regional standards .....</b>	<b>11</b>
<b>Annex D (informative)</b>	<b>Guidelines for heat treatment .....</b>	<b>12</b>
<b>Bibliography .....</b>		<b>13</b>