

# ISO 3506-3:2009-11 (E)

## Mechanical properties of corrosion-resistant stainless steel fasteners - Part 3: Set screws and similar fasteners not under tensile stress

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Designation, marking and finish .....</b>	<b>2</b>
<b>3.1</b>	<b>Designation .....</b>	<b>2</b>
<b>3.2</b>	<b>Marking .....</b>	<b>3</b>
<b>3.3</b>	<b>Finish .....</b>	<b>4</b>
<b>4</b>	<b>Chemical composition .....</b>	<b>4</b>
<b>5</b>	<b>Mechanical properties .....</b>	<b>5</b>
<b>5.1</b>	<b>General .....</b>	<b>5</b>
<b>5.2</b>	<b>Proof torque of hexagon socket set screws .....</b>	<b>5</b>
<b>5.3</b>	<b>Hardness .....</b>	<b>6</b>
<b>6</b>	<b>Test methods .....</b>	<b>6</b>
<b>6.1</b>	<b>Proof torque test for hexagon socket set screws .....</b>	<b>6</b>
<b>6.2</b>	<b>Hardness test HB, HRB or HV for set screws .....</b>	<b>7</b>
	<b>Annex A (normative) Description of the groups and grades of stainless steels .....</b>	<b>8</b>
	<b>Annex B (informative) Austenitic stainless steel composition specifications .....</b>	<b>11</b>
	<b>Annex C (informative) Austenitic stainless steels for cold heading and extruding .....</b>	<b>13</b>
	<b>Annex D (informative) Time-temperature diagram of intergranular corrosion in austenitic stainless steels, grade A2 (18/8 steels) .....</b>	<b>15</b>
	<b>Annex E (informative) Magnetic properties for austenitic stainless steels .....</b>	<b>16</b>
	<b>Bibliography .....</b>	<b>17</b>