

| <b>Contents</b>                                                                                                                              |                                              | <b>Page</b> |
|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------|-------------|
| <b>Foreword .....</b>                                                                                                                        |                                              | <b>iv</b>   |
| <b>Introduction.....</b>                                                                                                                     |                                              | <b>v</b>    |
| <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>Surface hardness .....</b>                | <b>5</b>    |
| <b>5.3</b>                                                                                                                                   | <b>Core hardness .....</b>                   | <b>6</b>    |
| <b>5.4</b>                                                                                                                                   | <b>Torsional strength .....</b>              | <b>6</b>    |
| <b>5.5</b>                                                                                                                                   | <b>Thread forming capability.....</b>        | <b>6</b>    |
| <b>6</b>                                                                                                                                     | <b>Test methods .....</b>                    | <b>6</b>    |
| <b>6.1</b>                                                                                                                                   | <b>Surface hardness test.....</b>            | <b>6</b>    |
| <b>6.2</b>                                                                                                                                   | <b>Core hardness test .....</b>              | <b>6</b>    |
| <b>6.3</b>                                                                                                                                   | <b>Torsional strength test.....</b>          | <b>6</b>    |
| <b>6.4</b>                                                                                                                                   | <b>Drive test .....</b>                      | <b>8</b>    |
| <b>Annex A (normative) Description of the groups and grades of stainless steels .....</b>                                                    |                                              | <b>9</b>    |
| <b>Annex B (informative) Stainless steel for cold heading and extruding.....</b>                                                             |                                              | <b>12</b>   |
| <b>Annex C (informative) Austenitic stainless steels with particular resistance to chloride induced stress corrosion .....</b>               |                                              | <b>14</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>   |