

# ISO 3522:2007-10 (E)

## Aluminium and aluminium alloys - Castings - Chemical composition and mechanical properties

---

<b>Contents</b>		<b>Page</b>
<b>Foreword</b> .....		<b>iv</b>
<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>Designation</b> .....		<b>2</b>
<b>4.1</b> <b>Alloy designation</b> .....		<b>2</b>
<b>4.2</b> <b>Temper designations</b> .....		<b>2</b>
<b>4.3</b> <b>Casting processes</b> .....		<b>3</b>
<b>4.4</b> <b>Product designation</b> .....		<b>3</b>
<b>5</b> <b>Chemical composition</b> .....		<b>3</b>
<b>5.1</b> <b>General</b> .....		<b>3</b>
<b>5.2</b> <b>Samples for chemical analysis of castings</b> .....		<b>3</b>
<b>6</b> <b>Mechanical properties</b> .....		<b>4</b>
<b>6.1</b> <b>General</b> .....		<b>4</b>
<b>6.2</b> <b>Test pieces</b> .....		<b>4</b>
<b>6.3</b> <b>Tensile tests</b> .....		<b>5</b>
<b>6.4</b> <b>Retests</b> .....		<b>5</b>
<b>6.5</b> <b>Hardness tests</b> .....		<b>6</b>
<b>7</b> <b>Rounding rules for determination of compliance</b> .....		<b>6</b>
<b>Annex A (normative) Writing rules for the designation and chemical composition of alloyed aluminium ingots for remelting and castings</b> .....		<b>14</b>
<b>Annex B (informative) Mechanical properties of pressure die-cast alloys</b> .....		<b>16</b>
<b>Annex C (informative) Comparison of casting characteristics, mechanical and other properties</b> .....		<b>17</b>
<b>Annex D (informative) Comparison between cast aluminium alloy designations</b> .....		<b>21</b>
<b>Bibliography</b> .....		<b>22</b>