

# ISO 1005-6:1994-08 (E)

## Railway rolling stock material - Part 6: Solid wheels for tractive and trailing stock; technical delivery conditions

---

<b>Contents</b>		<b>Page</b>
<b>1</b>	<b>Scope .....</b>	<b>1</b>
<b>2</b>	<b>Normative references .....</b>	<b>1</b>
<b>3</b>	<b>Information to be supplied by the purchaser .....</b>	<b>2</b>
<b>4</b>	<b>Classification .....</b>	<b>3</b>
<b>4.1</b>	<b>Grades of steel.....</b>	<b>3</b>
<b>4.2</b>	<b>Types of heat-treatment condition on delivery .....</b>	<b>3</b>
<b>4.3</b>	<b>Testing category.....</b>	<b>3</b>
<b>4.4</b>	<b>Degree of finish .....</b>	<b>3</b>
<b>4.5</b>	<b>Tolerance category.....</b>	<b>3</b>
<b>5</b>	<b>Requirements.....</b>	<b>3</b>
<b>5.1</b>	<b>Chemical composition .....</b>	<b>3</b>
<b>5.2</b>	<b>Mechanical properties .....</b>	<b>3</b>
<b>5.3</b>	<b>Appearance and soundness .....</b>	<b>3</b>
<b>5.4</b>	<b>Machining allowances and dimensional tolerances</b>	
<b>5.5</b>	<b>Residual imbalance .....</b>	<b>4</b>
<b>5.6</b>	<b>Marking.....</b>	<b>4</b>
<b>6</b>	<b>Manufacture .....</b>	<b>4</b>
<b>6.1</b>	<b>Steelmaking process.....</b>	<b>4</b>
<b>6.2</b>	<b>Manufacturing process .....</b>	<b>6</b>
<b>6.3</b>	<b>Removal of defective sections.....</b>	<b>6</b>
<b>6.4</b>	<b>Identification of the wheels during manufacture .....</b>	<b>6</b>
<b>6.5</b>	<b>Heat treatment .....</b>	<b>6</b>
<b>6.6</b>	<b>Machining and correction of imbalance.....</b>	<b>6</b>
<b>6.7</b>	<b>Removal of surface defects.....</b>	<b>7</b>
<b>6.8</b>	<b>Shot peening.....</b>	<b>7</b>
<b>7</b>	<b>Inspection.....</b>	<b>7</b>
<b>7.1</b>	<b>Responsibilities and type of inspection.....</b>	<b>7</b>
<b>7.2</b>	<b>Inspection of manufacture .....</b>	<b>8</b>
<b>7.3</b>	<b>Inspection of the characteristics of the wheels .....</b>	<b>8</b>
<b>7.4</b>	<b>Submission for inspection by the purchaser .....</b>	<b>8</b>
<b>7.5</b>	<b>Certification.....</b>	<b>8</b>
<b>7.6</b>	<b>Number of checks and tests .....</b>	<b>9</b>
<b>7.7</b>	<b>Sampling and preparation of samples and test pieces .....</b>	<b>9</b>
<b>7.8</b>	<b>Test methods .....</b>	<b>11</b>
<b>7.9</b>	<b>Retests.....</b>	<b>12</b>
<b>7.10</b>	<b>Conclusion of the inspection .....</b>	<b>12</b>
<b>8</b>	<b>Delivery.....</b>	<b>12</b>
<b>8.1</b>	<b>Protection against corrosion during transport .....</b>	<b>12</b>
<b>8.2</b>	<b>Protection against mechanical damage during transport .....</b>	<b>12</b>
<b>Annexes</b>		
<b>A</b>	<b>Procedure for shot peening web surfaces of wheels .....</b>	<b>17</b>
<b>B</b>	<b>Bibliography .....</b>	<b>21</b>