LIST OF QUALITY-CONTROL SAMPLES

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| **List of quality-control sample**

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| Serial number | Name | Specifications | Test parameters |
| 1 | Room temperature tensile test sample(Hot rolled ribbed steel bar) | Ф12mm×350mmФ16mm×350mmФ16mm×450mm | Tensile strength (Rm, MPa)Lower yield strength (ReL, MPa)Percentage elongation after fracture (A, %) |
| 2 | Room temperature tensile test sample (Steel bar) | Ф10mm,M16 standard threadФ 5 mm,M12 standard thread | Tensile strength (Rm, MPa)Lower yield strength (ReL, MPa)Percentage elongation after fracture (A, %)Percentage reduction of area (Z, %) |
| 3 | Room temperature tensile test sample (Steel Plate) | Thickness: 2 mmWidth: 20 mmOriginal gage: 50 mmThe parallel length: 90 mmClamping head: 50 mm | Tensile strength (Rm, MPa)Lower yield strength (ReL, MPa)Percentage elongation after fracture (A, %) |
| 4 | Room temperature tensile test sample (Aluminium alloy Plate) | Thickness: 2 mmWidth: 20 mmOriginal gage: 50 mmThe parallel length: 90 mmClamping head: 50 mm | Tensile strength (Rm, MPa)Percentage elongation after fracture (A50mm, %)Proof strength, plastic extension ofRp0.2 (MPa) |
| 5 | Room temperature tensile test sample (Steel wire) | Ф4mm×300mm | Tensile strength (Rm, MPa)Percentage elongation after fracture (A100mm, %) |
| 6 | Elevated temperature tensile test sample (Steel bar) | Ф 5 mm,M12 standard thread | Tensile strength (Rm, MPa)Lower yield strength (ReL, MPa)Percentage elongation after fracture (A, %) |
| 7 | Charpy impact test sample (Metallic material) | U5 notch, 10mmˣ10mmˣ55mm | Impact Absorbed Energy |
| 8 | Brinell hardness test sample (Metallic material) | 100mmˣ80mmˣ16mm100mmˣ80mmˣ16mm60mmˣ40mmˣ10mm | HBW 2.5/187.5HBW 5/750HBW 10/3000 |
| 9 | Rockwell hardness test sample (Metallic material) | 60mmˣ40mmˣ10mm60mmˣ40mmˣ10mm | HRBHRC |
| 10 | Vickers hardness test sample (Metallic material) | 25mmˣ25mmˣ5mm60mmˣ40mmˣ10mm60mmˣ40mmˣ10mm | HV0.2HV5HV10 |
| 11 | Neutral salt spray test sample (Metallic material) | 50mm×50mm×2mm | The final quality loss (g/m2) |

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