LIST OF QUALITY-CONTROL SAMPLES

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| **List of quality-control sample**   |  |  |  |  | | --- | --- | --- | --- | |  |  |  |  | | |  |  |  |  | | --- | --- | --- | --- | | Serial number | Name | Specifications | Test parameters | | 1 | Room temperature tensile test sample(Hot rolled ribbed steel bar) | Ф12mm×350mm Ф16mm×350mm Ф16mm×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 thread Ф 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 mm Width: 20 mm Original gage: 50 mm The parallel length: 90 mm Clamping 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 mm Width: 20 mm Original gage: 50 mm The parallel length: 90 mm Clamping head: 50 mm | Tensile strength (Rm, MPa) Percentage elongation after fracture (A50mm, %) Proof strength, plastic extension of Rp0.2 (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) | 100mmˣ80mmˣ16mm 100mmˣ80mmˣ16mm 60mmˣ40mmˣ10mm | HBW 2.5/187.5 HBW 5/750 HBW 10/3000 | | 9 | Rockwell hardness test sample (Metallic material) | 60mmˣ40mmˣ10mm 60mmˣ40mmˣ10mm | HRB HRC | | 10 | Vickers hardness test sample (Metallic material) | 25mmˣ25mmˣ5mm 60mmˣ40mmˣ10mm 60mmˣ40mmˣ10mm | HV0.2 HV5 HV10 | | 11 | Neutral salt spray test sample (Metallic material) | 50mm×50mm×2mm | The final quality loss (g/m2) | |  |  |  |  |  | | --- | |  |   **Contact Information:**  China NIL Research Center for Proficiency Testing  Address: No.13, Gaoliangqiao Xiejie, Haidian District, Beijing, 100081, P.R.China  Contacts: Ms. GUO Juan, Mr. Li Yinyan  Fax: +86 10 6218 1163  Tel: +86 10 6218 1064/8330  E-mail:[nil@analysis.org.cn](mailto:nil@analysis.org.cn) | | | |
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