



## China NIL Proficiency Testing Schemes (2018)

China NIL Research Center for Proficiency Testing takes great pleasure in informing you that we provide some international proficiency testing schemes in 2018, which are listed in the following Table 1. Furthermore, many perennial proficiency testing schemes will also be provided according to the requirement of internal and international laboratories. (See NIL website <http://english.nil.org.cn>).

As a professional PT provider, NIL has been accredited by China National Accreditation Service Conformity Assessment (CNAS), and all PT schemes provided by NIL are operated in compliance with ISO/IEC 17043:2010 “Conformity assessment—General requirements for proficiency testing”, and open to laboratories anywhere in the world.

We hope that the information in this notification are useful for you and kindly ask you to distribute it to any testing laboratory which might be interested.

**Table 1 NIL Proficiency Testing Schemes for 2018**

| Serial No              | Title   | Test object     | Test items         | Schedule         | Fees (USD)    | Select   |
|------------------------|---|-----------------|--------------------|------------------|---------------|--|
| <b>Metal and Alloy</b> |   |                 |                    |                  |               |  |
| NIL PT-1433-1          | Determination of C, Si, Mn, P and S in low alloy steel  | Low alloy steel | C, Si, Mn, P, S    | Mar.~Jul., 2018  | 350+ carriage | <input type="checkbox"/> Discs<br><input type="checkbox"/> Chips |
| NIL PT-1433-2          | Determination of C, Si, Mn, P and S in low alloy steel  | Low alloy steel | C, Si, Mn, P, S    | Jul.~ Sep., 2018 | 350+ carriage | <input type="checkbox"/> Discs<br><input type="checkbox"/> Chips |
| NIL PT-1433-3          | Determination of C, Si, Mn, P and S in low alloy steel  | Low alloy steel | C, Si, Mn, P, S    | Sep.~Dec., 2018  | 350+ carriage | <input type="checkbox"/> Discs<br><input type="checkbox"/> Chips |
| NIL PT-1434-1          | Determination of Cr, Ni, Cu, Mo and Al in low alloy steel   | Low alloy steel | Cr, Ni, Cu, Mo, Al | Mar.~ Jul., 2018 | 350+ carriage | <input type="checkbox"/> Discs<br><input type="checkbox"/> Chips |
| NIL PT-1434-2          | Determination of Cr, Ni, Cu, Mo and Al in low alloy steel   | Low alloy steel | Cr, Ni, Cu, Mo, Al | Jul.~ Dec., 2018 | 350+ carriage | <input type="checkbox"/> Discs<br><input type="checkbox"/> Chips |
| NIL PT-1435-1          | Determination of Cr, Ni, Cu, V and Ti in low alloy steel by inductively coupled plasma atomic emission spectrometry | Low alloy steel | Cr, Ni, Cu, V, Ti  | Mar.~ Jul., 2018 | 300+ carriage | <input type="checkbox"/>   |
| NIL PT-1435-2          | Determination of Cr, Ni, Cu, V and Ti in low alloy steel by inductively coupled plasma atomic emission spectrometry | Low alloy steel | Cr, Ni, Cu, V, Ti  | Jul.~ Dec., 2018 | 300+ carriage | <input type="checkbox"/>   |
| NIL PT-1436-1          | Determination of C, Si, Mn, P and S in low alloy steel by spark atomic emission spectrometry                        | Low alloy steel | C, Si, Mn, P, S    | Mar.~ Jul., 2018 | 350+ carriage | <input type="checkbox"/>   |
| NIL PT-1436-2          | Determination of C, Si, Mn, P and S in low alloy steel by spark atomic emission spectrometry                        | Low alloy steel | C, Si, Mn, P, S    | Jul.~ Dec., 2018 | 350+ carriage | <input type="checkbox"/>   |



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| Serial No        | Title  | Test object          | Test items              | Schedule         | Fees (USD)     | Select   |
|------------------|--|----------------------|-------------------------|------------------|----------------|--|
| NIL<br>PT-1437-1 | Determination of Cr, Ni, Cu, Mo and Al in low alloy steel by spark atomic emission spectrometry      | Low alloy steel      | Cr, Ni, Cu, Mo, Al      | Mar.~ Jul., 2018 | 350+ carriage  | <input type="checkbox"/>   |
| NIL<br>PT-1437-2 | Determination of Cr, Ni, Cu, Mo and Al in low alloy steel by spark atomic emission spectrometry      | Low alloy steel      | Cr, Ni, Cu, Mo, Al      | Jul.~ Dec., 2018 | 350+ carriage  | <input type="checkbox"/>   |
| NIL<br>PT-1438-1 | Determination of Si, Mn, P, Cr, Ni and Ti in stainless steel   | Stainless steel      | Si, Mn, P, Cr, Ni, Ti   | Mar.~ Jul., 2018 | 350+ carriage  | <input type="checkbox"/> Discs<br><input type="checkbox"/> Chips |
| NIL<br>PT-1438-2 | Determination of Si, Mn, P, Cr, Ni and Ti in stainless steel   | Stainless steel      | Si, Mn, P, Cr, Ni, Ti   | Jul.~ Dec., 2018 | 350+ carriage  | <input type="checkbox"/> Discs<br><input type="checkbox"/> Chips |
| NIL<br>PT-1439-1 | Determination of C, Si, Mn, P, S, Cr and Ni in stainless steel by spark atomic emission spectrometry | Stainless steel      | C, Si, Mn, P, S, Cr, Ni | Mar.~ Jul., 2018 | 350+ carriage  | <input type="checkbox"/>   |
| NIL<br>PT-1439-2 | Determination of C, Si, Mn, P, S, Cr and Ni in stainless steel by spark atomic emission spectrometry | Stainless steel      | C, Si, Mn, P, S, Cr, Ni | Jul.~ Dec., 2018 | 350+ carriage  | <input type="checkbox"/>   |
| NIL<br>PT-1442-1 | Determination of carbon and sulfur content in steel  | Steel                | C, S                    | Mar.~ Jul., 2018 | 280+ carriage  | <input type="checkbox"/>   |
| NIL<br>PT-1442-2 | Determination of carbon and sulfur content in steel  | Steel                | C, S                    | Jul.~ Sep., 2018 | 280 + carriage | <input type="checkbox"/>   |
| NIL<br>PT-1442-3 | Determination of carbon and sulfur content in steel  | Steel                | C, S                    | Sep.~Dec., 2018  | 280+ carriage  | <input type="checkbox"/>   |
| NIL<br>PT-1443-1 | Determination of oxygen and nitrogen content in steel  | Steel                | O, N                    | Mar.~ Jul., 2018 | 280 + carriage | <input type="checkbox"/>   |
| NIL<br>PT-1443-2 | Determination of oxygen and nitrogen content in steel  | Steel                | O, N                    | Jul.~ Dec., 2018 | 280+ carriage  | <input type="checkbox"/>   |
| NIL<br>PT-1444   | Determination of hydrogen in steel   | Steel                | H                       | Jul.~ Dec., 2018 | 300 + carriage | <input type="checkbox"/>   |
| NIL<br>PT-1449   | Determination of Si, Mn, P, Al and Ca in ferrosilicium alloy   | Ferrosilicium alloy  | Si, Mn, P, Al, Ca       | Jul.~ Dec., 2018 | 300+ carriage  | <input type="checkbox"/>   |
| NIL<br>PT-1450   | Determination of C, Si, Mn and P in ferromanganese alloy   | Ferromanganese alloy | C, Si, Mn, P            | Jul.~ Dec., 2018 | 300 + carriage | <input type="checkbox"/>   |



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| Serial No                                      | Title  | Test object             | Test items   | Schedule            | Fees (USD)        | Select   |
|--|--|-------------------------|--|---------------------|-------------------|--|
| NIL<br>PT-1456                                 | Determination of Si, Mn, P and S in Si-Mn alloy  | Silicon-Manganese alloy | Si, Mn, P, S   | Jul.~ Dec.,<br>2018 | 300+<br>carriage  | <input type="checkbox"/>   |
| NIL<br>PT-1460                                 | Determination of Si, Fe, Cu, Mg and Zn in pure aluminum  | Pure aluminum           | Si, Fe, Cu,<br>Mg, Zn  | Apr.~ Oct.,<br>2018 | 320 +<br>carriage | <input type="checkbox"/> Discs<br><input type="checkbox"/> Chips |
| NIL<br>PT-1461-1                               | Determination of Si, Fe, Cu, Mg and Mn in aluminium alloy  | Aluminium alloy         | Si, Fe, Cu,<br>Mg, Mn  | Mar.~ Jul.,<br>2018 | 320+<br>carriage  | <input type="checkbox"/> Discs<br><input type="checkbox"/> Chips |
| NIL<br>PT-1461-2                               | Determination of Si, Fe, Cu, Mg and Mn in aluminium alloy  | Aluminium alloy         | Si, Fe, Cu,<br>Mg, Mn  | Jul.~ Dec.,<br>2018 | 320 +<br>carriage | <input type="checkbox"/> Discs<br><input type="checkbox"/> Chips |
| NIL<br>PT-1462                                 | Determination of Cu, Mg, Fe and Al in zinc alloy   | Zinc alloy              | Cu, Mg, Fe,<br>Al  | Jul.~ Dec.,<br>2018 | 320 +<br>carriage | <input type="checkbox"/>   |
| NIL<br>PT-1463                                 | Determination of Cu, Sn, Fe, Ni, Zn and P in tin bronze  | Tin bronze              | Cu, Sn, Fe,<br>Ni, Zn, P   | Jul.~ Dec.,<br>2018 | 320+<br>carriage  | <input type="checkbox"/> Discs<br><input type="checkbox"/> Chips |
| NIL<br>PT-1464                                 | Determination of Zn, Sn, Fe, Ni, Al and Si in copper alloy   | Copper alloy            | Zn, Sn, Fe,<br>Ni, Al, Si  | Jul.~ Dec.,<br>2018 | 320 +<br>carriage | <input type="checkbox"/> Discs<br><input type="checkbox"/> Chips |
| NIL<br>PT-1466                                 | Determination of Fe, Al, V and Si in titanium alloy  | Titanium alloy          | Fe, Al, V,Si   | Jul.~ Dec.,<br>2018 | 350 +<br>carriage | <input type="checkbox"/> Discs<br><input type="checkbox"/> Chips |
| <b>Ore, Mineral and Metallurgical Material</b> |  |                         |  |                     |                   |  |
| NIL<br>PT-1473-1                               | Determination of TFe, SiO <sub>2</sub> , P and S in iron ore   | Iron ore                | TFe, SiO <sub>2</sub> , P,<br>S  | Mar.~ Jul.,<br>2018 | 300 +<br>carriage | <input type="checkbox"/>   |
| NIL<br>PT-1473-2                               | Determination of TFe, SiO <sub>2</sub> , P and S in iron ore   | Iron ore                | TFe, SiO <sub>2</sub> , P,<br>S  | Jul.~ Dec.,<br>2018 | 300 +<br>carriage | <input type="checkbox"/>   |
| NIL<br>PT-1474                                 | Determination of CaO, MgO and Al <sub>2</sub> O <sub>3</sub> in iron ore   | Iron ore                | CaO, MgO,<br>Al <sub>2</sub> O <sub>3</sub>  | Apr.~Oct.,<br>2018  | 300 +<br>carriage | <input type="checkbox"/>   |
| NIL<br>PT-1475                                 | Determination of TFe and FeO in iron ore   | Iron ore                | TFe, FeO   | Jul.~ Dec.,<br>2018 | 300 +<br>carriage | <input type="checkbox"/>   |
| NIL<br>PT-1476                                 | Determination of potassium and sodium in iron ore  | Iron ore                | K, Na  | Jul.~ Dec.,<br>2018 | 300 +<br>carriage | <input type="checkbox"/>   |
| NIL<br>PT-1477                                 | Determination of TMn, TFe, SiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> in manganese ore                              | Manganese ore           | TMn, TFe,<br>SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub>                                     | Jul.~ Dec.,<br>2018 | 300 +<br>carriage | <input type="checkbox"/>   |
| NIL<br>PT-1478                                 | Determination of CaF <sub>2</sub> , SiO <sub>2</sub> and TFe in fluorite   | Fluorite                | CaF <sub>2</sub> , SiO <sub>2</sub> ,<br>TFe   | Jul.~ Dec.,<br>2018 | 300 +<br>carriage | <input type="checkbox"/>   |
| NIL<br>PT-1479-1                               | Determination of SiO <sub>2</sub> , CaO, MgO, Fe <sub>2</sub> O <sub>3</sub> and Al <sub>2</sub> O <sub>3</sub> in limestone | Limestone               | SiO <sub>2</sub> , CaO,<br>MgO, Fe <sub>2</sub> O <sub>3</sub> ,<br>Al <sub>2</sub> O <sub>3</sub> | Mar.~ Jul.,<br>2018 | 300 +<br>carriage | <input type="checkbox"/>   |
| NIL<br>PT-1479-2                               | Determination of SiO <sub>2</sub> , CaO, MgO, Fe <sub>2</sub> O <sub>3</sub> and Al <sub>2</sub> O <sub>3</sub> in limestone | Limestone               | SiO <sub>2</sub> , CaO,<br>MgO, Fe <sub>2</sub> O <sub>3</sub> ,<br>Al <sub>2</sub> O <sub>3</sub> | Jul.~ Dec.,<br>2018 | 300 +<br>carriage | <input type="checkbox"/>   |



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| Serial No                     | Title   | Test object           | Test items   | Schedule            | Fees (USD)        | Select                   |
|-------------------------------|---|-----------------------|--|---------------------|-------------------|--------------------------|
| NIL<br>PT-1482                | Determination of Ni, Cu, Fe and Mg in nickel ore  | Nickel ore            | Ni, Cu, Fe, Mg   | Jul.~ Dec.,<br>2018 | 300 +<br>carriage | <input type="checkbox"/> |
| NIL<br>PT-1483                | Determination of Zn, Pb and Cu in zinc ore  | Zinc ore              | Zn, Pb, Cu   | Jul.~ Dec.,<br>2018 | 300 +<br>carriage | <input type="checkbox"/> |
| NIL<br>PT-1485                | Determination of Zn,Cu,Pb and Fe in zinc concentrates   | Zinc concentrates     | Zn, Cu, Pb, Fe   | Apr.~ Oct.,<br>2018 | 300 +<br>carriage | <input type="checkbox"/> |
| NIL<br>PT-1486                | Determination of Cu, S, Au and Ag in copper concentrates  | Copper concentrates   | Cu, S, Au ,Ag  | Apr.~ Oct.,<br>2018 | 300 +<br>carriage | <input type="checkbox"/> |
| NIL<br>PT-1487                | Determination of Pb, Cu, Zn and As in lead concentrates   | Lead concentrates     | Pb, Cu, Zn, As   | Apr.~ Oct.,<br>2018 | 300 +<br>carriage | <input type="checkbox"/> |
| NIL<br>PT-1489                | Determination of Cu, Pb, Zn and Fe in polymetallic-ore  | Polymetallic ore      | Cu, Pb, Zn, Fe   | Jul.~ Dec.,<br>2018 | 300 +<br>carriage | <input type="checkbox"/> |
| NIL<br>PT-1491                | Determination of Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO and TiO <sub>2</sub> in bauxite | Bauxite               | Al <sub>2</sub> O <sub>3</sub> , SiO <sub>2</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO, TiO <sub>2</sub> | Apr.~ Oct.,<br>2018 | 300 +<br>carriage | <input type="checkbox"/> |
| NIL<br>PT-1492                | Determination of SiO <sub>2</sub> , CaO, MgO, Fe <sub>2</sub> O <sub>3</sub> and Al <sub>2</sub> O <sub>3</sub> in silicate rock          | Silicate rock         | SiO <sub>2</sub> , CaO, MgO, Fe <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub>               | Apr.~ Oct.,<br>2018 | 300 +<br>carriage | <input type="checkbox"/> |
| NIL<br>PT-1493                | Determination of gold and silver in ore   | Ore                   | Au, Ag   | Apr.~ Oct.,<br>2018 | 300 +<br>carriage | <input type="checkbox"/> |
| NIL<br>PT-1494                | Determination of Fe, Al and Ca in metallurgical silicon   | Metallurgical silicon | Fe, Al, Ca   | Jul.~ Dec.,<br>2018 | 300 +<br>carriage | <input type="checkbox"/> |
| <b>Coal</b>                   |   |                       |  |                     |                   |                          |
| Serial No                     | Title   | Test object           | Test items   | Schedule            | Fees (USD)        | Select                   |
| NIL<br>PT-1497-1              | Proximate analysis of coal  | Coal                  | sulphur, ash, volatile matter  | Mar.~ Jul.,<br>2018 | 300 +<br>carriage | <input type="checkbox"/> |
| NIL<br>PT-1497-2              | Proximate analysis of coal  | Coal                  | sulphur, ash, volatile matter  | Jul.~ Dec.,<br>2018 | 300 +<br>carriage | <input type="checkbox"/> |
| <b>Environmental Analysis</b> |   |                       |  |                     |                   |                          |
| Serial No                     | Title   | Test object           | Test items   | Schedule            | Fees (USD)        | Select                   |
| NIL<br>PT-1519-1              | Determination of lead and cadmium content in soil   | Soil                  | Pb, Cd   | Mar.~ Aug,<br>2018  | 300 +<br>carriage | <input type="checkbox"/> |
| NIL<br>PT-1519-2              | Determination of lead and cadmium content in soil   | Soil                  | Pb, Cd   | Jul.~ Dec.,<br>2018 | 300 +<br>carriage | <input type="checkbox"/> |



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| Serial No     | Title   | Test object | Test items          | Schedule         | Fees (USD)     | Select                   |
|---------------|---|-------------|---------------------|------------------|----------------|--------------------------|
| NIL PT-1520-1 | Determination of Nickel,Copper,Zinc content in soil             | Soil        | Ni, Cu, Zn          | Mar.~ Aug, 2018  | 300 + carriage | <input type="checkbox"/> |
| NIL PT-1520-2 | Determination of Nickel,Copper,Zinc content in soil             | Soil        | Ni, Cu, Zn          | Jul.~ Dec., 2018 | 300 + carriage | <input type="checkbox"/> |
| NIL PT-1521-1 | Determination of total mercury and total Arsenic in soil        | Soil        | Total Hg , Total As | Mar.~ Aug, 2018  | 300 + carriage | <input type="checkbox"/> |
| NIL PT-1521-2 | Determination of total mercury and total Arsenic in soil        | Soil        | Total Hg , Total As | Jul.~ Dec., 2018 | 300 + carriage | <input type="checkbox"/> |
| NIL PT-1522-1 | Determination of total chromium content in soil                 | Soil        | Total Cr            | Mar.~ Aug, 2018  | 300 + carriage | <input type="checkbox"/> |
| NIL PT-1522-2 | Determination of total chromium content in soil                 | Soil        | Total Cr            | Jul.~ Dec., 2018 | 300 + carriage | <input type="checkbox"/> |
| NIL PT-1523-1 | Determination of total Phosphorus in soil                       | Soil        | Total P             | Mar.~ Aug, 2018  | 300 + carriage | <input type="checkbox"/> |
| NIL PT-1523-2 | Determination of total Phosphorus in soil                       | Soil        | Total P             | Jul.~ Dec., 2018 | 300 + carriage | <input type="checkbox"/> |
| NIL PT-1524   | Determination of total potassium in soil                        | Soil        | Total K             | Jul.~ Dec., 2018 | 300 + carriage | <input type="checkbox"/> |
| NIL PT-1525   | Determination of total total nitrogen in soil                   | Soil        | Total N             | Jul.~ Dec., 2018 | 300 + carriage | <input type="checkbox"/> |
| NIL PT-1527-1 | Determination of pH in soil                                     | Soil        | pH at 25°C          | Mar.~ Aug, 2018  | 300 + carriage | <input type="checkbox"/> |
| NIL PT-1527-2 | Determination of pH in soil                                     | Soil        | pH at 25°C          | Jul.~ Dec., 2018 | 300 + carriage | <input type="checkbox"/> |
| <b>Food</b>   |   |             |                     |                  |                |                          |
| Serial No     | Title   | Test object | Test items          | Schedule         | Fees (USD)     | Select                   |
| NIL PT-1618   | Determination of total As in rice meal                          | Rice meal   | Total As            | Jul.~ Dec., 2018 | 350 + carriage | <input type="checkbox"/> |
| NIL PT-1619   | Determination of Cd in rice meal                                | Rice meal   | Cd                  | Jul.~ Dec., 2018 | 350 + carriage | <input type="checkbox"/> |
| NIL PT-1646   | Determination of the amount of fipronil residue in egg products | Egg powder  | Fipronil            | Jul.~ Dec., 2018 | 350 + carriage | <input type="checkbox"/> |



## China NIL Research Center for Proficiency Testing

| Textile         |  |   |                                   |                  |                |                          |
|-----------------|--|---|-----------------------------------|------------------|----------------|--------------------------|
| Serial No       | Title  | Test object   | Test items                        | Schedule         | Fees (USD)     | Select                   |
| NIL<br>PT-1656  | Determination of formaldehyde in textile (water extraction method)   | Textile   | Formaldehyde                      | Jul.~ Dec., 2018 | 300 + carriage | <input type="checkbox"/> |
| NIL<br>PT-1657* | Determination of fiber content in textile  | Textile   | Fiber content                     | Jul.~ Dec., 2018 | 300 + carriage | <input type="checkbox"/> |
| RoHS            |  |   |                                   |                  |                |                          |
| Serial No       | Title  | Test object   | Test items                        | Schedule         | Fees (USD)     | Select                   |
| NIL<br>PT-1658  | Restricted substances in electronic and electrical products – Determination of Pb content in copper and copper alloys            | Electronic and electrical products – copper and copper alloys     | Pb                                | Apr.~Oct., 2018  | 320 + carriage | <input type="checkbox"/> |
| NIL<br>PT-1659  | Restricted substances in electronic and electrical products – Determination of Pb and Cd content in aluminum and aluminum alloys | Electronic and electrical products – aluminum and aluminum alloys | Pb, Cd                            | Apr.~Oct., 2018  | 320 + carriage | <input type="checkbox"/> |
| NIL<br>PT-1660  | Restricted substances in electronic and electrical products – Determination of Pb and Cd content in zinc and zinc alloys         | Electronic and electrical products – zinc and zinc alloys         | Pb, Cd                            | Apr.~Oct., 2018  | 320 + carriage | <input type="checkbox"/> |
| NIL<br>PT-1661  | Restricted substances in electronic and electrical products – Determination of noxious substance content in ABS                  | Electronic and electrical products – ABS                          | Pb, Cd, Hg, Cr <sup>6+</sup> , Br | Apr.~Oct., 2018  | 400 + carriage | <input type="checkbox"/> |
| NIL<br>PT-1663  | Restricted substances in electronic and electrical products – Determination of flame retardant content in plastic                | Electronic and electrical products – plastic                      | BDE-209                           | Apr.~Oct., 2018  | 400 + carriage | <input type="checkbox"/> |
| Plastic         |  |   |                                   |                  |                |                          |
| Serial No       | Title  | Test object   | Test items                        | Schedule         | Fees (USD)     | Select                   |
| NIL<br>PT-1666  | Determination of phthalate plasticizers in plastic toy   | Plastic toy   | DBP, DEHP, BBP, DINP, DIDP        | Jul.~ Dec., 2018 | 400 + carriage | <input type="checkbox"/> |



## China NIL Research Center for Proficiency Testing

| Microstructure and Physical Properties of Materials |   |                    |                          |                  |               |                          |
|---|---|--------------------|--------------------------|------------------|---------------|--------------------------|
| Serial No   | Title   | Test object        | Test items               | Schedule         | Fees (USD)    | Select                   |
| NIL PT-1685-1                                       | Determination of average grain size in metallic materials(only for Intercept Procedure) | Metallic materials | Grain size number        | Mar.~ Jul., 2018 | 400+ carriage | <input type="checkbox"/> |
| NIL PT-1685-2                                       | Determination of average grain size in metallic materials(only for Intercept Procedure) | Metallic materials | Grain size number        | Jul.~ Dec., 2018 | 400+ carriage | <input type="checkbox"/> |
| NIL PT-1687   | Determination of depth of decarburization of steels                                     | Steels             | Depth of decarburization | Jul.~ Dec., 2018 | 400+ carriage | <input type="checkbox"/> |
| NIL PT-1695   | Determination of average grain size in aluminium alloy(only for Intercept Procedure)    | Aluminium alloy    | Grain size number        | Apr.~ Oct., 2018 | 400+ carriage | <input type="checkbox"/> |
| Mechanical Properties for Materials                 |   |                    |                          |                  |               |                          |
| Serial No   | Title   | Test object        | Test items               | Schedule         | Fees (USD)    | Select                   |
| NIL PT-1706-1                                       | Brinell hardness test for metallic materials(only for ISO 6506-1)                       | Metallic materials | HBW 2.5/187.5            | Mar.~ Jul., 2018 | 450+ carriage | <input type="checkbox"/> |
| NIL PT-1706-2                                       | Brinell hardness test for metallic materials(only for ISO 6506-1)                       | Metallic materials | HBW 2.5/187.5            | Jul.~ Dec., 2018 | 450+ carriage | <input type="checkbox"/> |
| NIL PT-1707-1                                       | Brinell hardness test for metallic materials(only for ISO 6506-1)                       | Metallic materials | HBW 5/750                | Mar.~ Jul., 2018 | 450+ carriage | <input type="checkbox"/> |
| NIL PT-1707-2                                       | Brinell hardness test for metallic materials(only for ISO 6506-1)                       | Metallic materials | HBW 5/750                | Jul.~ Dec., 2018 | 450+ carriage | <input type="checkbox"/> |
| NIL PT-1708-1                                       | Brinell hardness test for metallic materials(only for ISO 6506-1)                       | Metallic materials | HBW 10/3000              | Mar.~ Jul., 2018 | 450+ carriage | <input type="checkbox"/> |
| NIL PT-1708-2                                       | Brinell hardness test for metallic materials(only for ISO 6506-1)                       | Metallic materials | HBW 10/3000              | Jul.~ Dec., 2018 | 450+ carriage | <input type="checkbox"/> |
| NIL PT-1709-1                                       | Rockwell hardness test for metallic materials (only for ISO 6508-1)                     | Metallic materials | HRB                      | Mar.~ Jul., 2018 | 450+ carriage | <input type="checkbox"/> |
| NIL PT-1709-2                                       | Rockwell hardness test for metallic materials (only for ISO 6508-1)                     | Metallic materials | HRB                      | Jul.~ Dec., 2018 | 450+ carriage | <input type="checkbox"/> |
| NIL PT-1710-1                                       | Rockwell hardness test for metallic materials (only for ISO 6508-1)                     | Metallic materials | HRC                      | Mar.~Jul., 2018  | 450+ carriage | <input type="checkbox"/> |
| NIL PT-1710-2                                       | Rockwell hardness test for metallic materials (only for ISO 6508-1)                     | Metallic materials | HRC                      | Jul~ Sep., 2018  | 450+ carriage | <input type="checkbox"/> |

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|                  |  |                    |                               |                     |                  |                          |
|------------------|--|--------------------|-------------------------------|---------------------|------------------|--------------------------|
| NIL<br>PT-1710-3 | Rockwell hardness test for metallic materials (only for ISO 6508-1)  | Metallic materials | HRC                           | Sep.~<br>Dec., 2018 | 450+<br>carriage | <input type="checkbox"/> |
| NIL<br>PT-1711   | Vickers hardness test for metallic materials (only for ISO 6507-1)   | Metallic materials | HV0.2                         | Jul.~ Dec.,<br>2018 | 500+<br>carriage | <input type="checkbox"/> |
| NIL<br>PT-1712   | Vickers hardness test for metallic materials (only for ISO 6507-1)   | Metallic materials | HV5                           | Jul.~ Dec.,<br>2018 | 450+<br>carriage | <input type="checkbox"/> |
| NIL<br>PT-1713-1 | Vickers hardness test for metallic materials (only for ISO 6507-1)   | Metallic materials | HV10                          | Mar.~ Jul.,<br>2018 | 450+<br>carriage | <input type="checkbox"/> |
| NIL<br>PT-1713-2 | Vickers hardness test for metallic materials (only for ISO 6507-1)   | Metallic materials | HV10                          | Jul.~ Dec.,<br>2018 | 450+<br>carriage | <input type="checkbox"/> |
| NIL<br>PT-1716-1 | Room temperature tensile test for metallic materials (Rm: 400MPa-1000MPa. Diameter of sample: Φ10mm, M16 normal screw threaded both ends. Matched chucking heads are required. only for ISO 6892-1 ) | Metallic materials | $R_m, R_{eL}, A, Z, R_{p0.2}$ | Mar.~ Jul.,<br>2018 | 600+<br>carriage | <input type="checkbox"/> |
| NIL<br>PT-1716-2 | Room temperature tensile test for metallic materials (Rm: 400MPa~1000MPa. Diameter of sample: Φ10mm, M16 normal screw threaded both ends. Matched chucking heads are required. only for ISO 6892-1)  | Metallic materials | $R_m, R_{eL}, A, Z, R_{p0.2}$ | Jul.~ Dec.,<br>2018 | 600+<br>carriage | <input type="checkbox"/> |
| NIL<br>PT-1717   | Room temperature tensile test for metallic materials (Rm: 400MPa~1000MPa. Diameter of sample: Φ5mm, M12 normal screw threaded both ends. Matched chucking heads are required. only for ISO 6892-1 )  | Metallic materials | $R_m, R_{eL}, A, Z, R_{p0.2}$ | Apr.~Oct.,<br>2018  | 600+<br>carriage | <input type="checkbox"/> |
| NIL<br>PT-1718   | Room temperature tensile test for metallic materials (Rm: 400MPa~1000MPa. Diameter of sample: Φ20mm, Diameter of terminal end: Φ27mm. only for ISO 6892-1)   | Metallic materials | $R_m, R_{eL}, A, Z, R_{p0.2}$ | Jul.~ Dec.,<br>2018 | 600+<br>carriage | <input type="checkbox"/> |



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|                  |  |                      |   |                  |               |                          |
|------------------|--|----------------------|---|------------------|---------------|--------------------------|
| NIL<br>PT-1719-1 | Room temperature tensile test for plates of metallic materials (R <sub>m</sub> : 300MPa~600MPa. Thickness of sample: 5.6mm; Width of sample: 20mm. only for ISO 6892-1)                                  | Metallic materials   | R <sub>m</sub> , R <sub>eL</sub> , A, R <sub>p0.2</sub> | Mar.~ Jul., 2018 | 550+ carriage | <input type="checkbox"/> |
| NIL<br>PT-1719-2 | Room temperature tensile test for plates of metallic materials (R <sub>m</sub> : 300MPa~600MPa. Thickness of sample: 13.75mm; Width of sample: 30mm. only for ISO 6892-1)                                | Metallic materials   | R <sub>m</sub> , R <sub>eL</sub> , A, R <sub>p0.2</sub> | Jul.~ Dec., 2018 | 550+ carriage | <input type="checkbox"/> |
| NIL<br>PT-1720   | Elevated temperature tensile test for metallic materials (Diameter of sample: Φ5mm, M12 normal screw threaded both ends. Matched chucking heads are required. Temperature: ≥ 300°C. only for ISO 6892-2) | Metallic materials   | R <sub>m</sub> , A, Z, R <sub>p0.2</sub>                | Jul.~ Dec., 2018 | 600+ carriage | <input type="checkbox"/> |
| NIL<br>PT-1722   | Room temperature tensile test for aluminum alloy sheet (Recommended testing machine: 20kN~50kN. only for ISO 6892-1)   | Aluminum alloy sheet | R <sub>m</sub> , A, R <sub>p0.2</sub>                   | Jul.~ Dec., 2018 | 550+ carriage | <input type="checkbox"/> |
| NIL<br>PT-1725-1 | Charpy impact test for metallic materials (Striker R=2mm. Recommended testing machine: ≥300J. only for ISO 148-1)  | Metallic materials   | Impact Absorbed Energy                                  | Mar.~ Jul., 2018 | 500+ carriage | <input type="checkbox"/> |
| NIL<br>PT-1725-2 | Charpy impact test for metallic materials (Striker R=2mm. Recommended testing machine: ≥300J. only for ISO 148-1)  | Metallic materials   | Impact Absorbed Energy                                  | Jul.~ Dec., 2018 | 500+ carriage | <input type="checkbox"/> |
| NIL<br>PT-1726   | Charpy impact test for metallic materials (Striker R=2mm. Recommended testing machine: ≥150J. only for ISO 148-1)  | Metallic materials   | Impact Absorbed Energy                                  | Apr.~Oct., 2018  | 500+ carriage | <input type="checkbox"/> |
| NIL<br>PT-1727   | Low-temperature Charpy impact test for metallic materials (Striker R=2mm. Recommended testing machine: ≥150J. only for ISO 148-1)  | Metallic materials   | Impact Absorbed Energy                                  | Jul.~ Dec., 2018 | 500+ carriage | <input type="checkbox"/> |



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| Mechanical Properties for Materials (Special for ASTM standard and Nadcap Accreditation) |  |                    |  |                  |               |                          |
|--|--|--------------------|--|------------------|---------------|--------------------------|
| Serial No  | Title  | Test object        | Test items   | Schedule         | Fees (USD)    | Select                   |
| NIL<br>PT-1733   | Room temperature tensile test for metallic materials (Diameter of sample: Φ12.5mm, Recommended testing machine: ≥100kN. for ASTM E8/E8M) | Metallic materials | tensile strength ,lower yield strength, elongation after fracture, reduction of area | Jul.~ Dec., 2018 | 650+ carriage | <input type="checkbox"/> |
| NIL<br>PT-1734   | Charpy impact test for metallic materials (Striker R=8mm. Recommended testing machine: ≥150J. for ASTM E23)                              | Metallic materials | Impact Absorbed Energy   | Jul.~ Dec., 2018 | 550+ carriage | <input type="checkbox"/> |
| NIL<br>PT-1735   | Brinell hardness test for metallic materials(for ASTM E10)   | Metallic materials | HBW 10/3000  | Jul.~ Dec., 2018 | 550+ carriage | <input type="checkbox"/> |
| NIL<br>PT-1736   | Rockwell hardness test for metallic materials(for ASTM E18)  | Metallic materials | HRC  | Jul.~ Dec., 2018 | 550+ carriage |                          |
| NIL<br>PT-1737   | Vickers hardness test for metallic materials(for ASTM E92)   | Metallic materials | HV10   | Jul.~ Dec., 2018 | 600+ carriage |                          |
| NIL<br>PT-1738   | Determination of average grain size in metallic materials (Recommendation for Intercept Procedure. for ASTM E112)                        | Metallic materials | Grain size number  | Jul.~ Dec., 2018 | 450+ carriage |                          |
| Non-destructive Test for Metallic Material   |  |                    |  |                  |               |                          |
| NIL<br>PT-1747   | Non-destructive tesitng of welds(Ultrasonic testing) (Sequential scheme)   | Steel Plate        | Location of indication, length of indication   | Apr.~Dec., 2018  | 500+ carriage | <input type="checkbox"/> |

**\*Note:** For NIL PT-1433-1, NIL PT-1433-2, NIL PT-1433-3, NIL PT-1434-1, NIL PT-1434-2, NIL PT-1438-1 and NIL PT-1438-2, NIL PT-1460, NIL PT-1461-1, NIL PT-1461-2, NIL PT-1463, NIL PT-1464, two kinds of samples (discs and chips) are available for different methods. Please choose the kind of samples you would like to receive in the registration form.



## SOME USEFUL INFORMATION OF THE SCHEMES:

### \* How to participate our PT schemes

*Please select the PT schemes in the table and send the order to [nil@analysis.org.cn](mailto:nil@analysis.org.cn)*

*If any problem, please return the following form as soon as possible by e-mail or fax*

Name of Laboratory: \_\_\_\_\_

Postal Address & Zip Code: \_\_\_\_\_

Contact Person: \_\_\_\_\_ Country: \_\_\_\_\_

E-mail: \_\_\_\_\_

Tel: \_\_\_\_\_ Fax: \_\_\_\_\_

#### China NIL Research Center for Proficiency Testing

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Fax: +86 10 6218 1163; Phone: +86 10 6218 1064

E-mail: [nil@analysis.org.cn](mailto:nil@analysis.org.cn)

Website: <http://english.nil.org.cn>

### \* Test samples (or specimens)

After NIL receives the orders and payments from the participants, test samples will be distributed along with "INSTRUCTIONS TO PARTICIPANTS", "RESULT SHEET" and "ATC code" to the laboratories participating in the scheme. Some of the samples are prepared and tested for homogeneity by the Standard Material Research Center of CISRI (Central Iron & Steel Research Institute).

### \* Testing method

The samples will be tested by the participant's preferred methods, which are generally used for providing formal reports. However, it is preferable to use international or national consensus standard methods. If a standard method is used, please provide its title name and serial number.

### \* Registration fees

Registration fees should be paid as soon as the laboratory receives invoice from NIL. An invoice will be forwarded to the participating laboratory together with the samples.