

China NIL Proficiency Testing Schemes (2015) (Chemical Analysis & Mechanical Testing)

China NIL Research Center for Proficiency Testing takes great pleasure in informing you that we provide some international proficiency testing schemes in 2015, 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 in.

Table 1 Chemical Analysis & Mechanical Testing for 2015

Serial No	Title	Test object	Test items	Schedule	Fees (USD)
NILPT-0644-1	Determination of C, Si, Mn, P and S in low alloy steel	Low alloy steel	C, Si, Mn, P, S	Apr.~Jul., 2015	450
NILPT-0644-2	Determination of C, Si, Mn, P and S in low alloy steel	Low alloy steel	C, Si, Mn, P, S	Jul.~ Sep., 2015	450
NILPT-0644-3	Determination of C, Si, Mn, P and S in low alloy steel	Low alloy steel	C, Si, Mn, P, S	Sep.~Dec., 2015	450
NILPT-0645-1	Determination of Cr, Ni, Cu, Mo and Al in low alloy steel	Low alloy steel	Cr, Ni, Cu, Mo, Al	Mar.~ Jul., 2015	450
NILPT-0645-2	Determination of Cr, Ni, Cu, Mo and Al in low alloy steel	Low alloy steel	Cr, Ni, Cu, Mo, Al	Jul.~ Dec., 2015	450
NILPT-0646	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	Apr.~Oct., 2015	450
NILPT-0647	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	Apr.~Oct., 2015	450
NILPT-0648-1	Determination of Si, Mn, P, Cr, Ni and Ti in stainless steel	Stainless steel	Si, Mn, P, Cr, Ni, Ti	Mar.~ Jul., 2015	500
NILPT-0648-2	Determination of Si, Mn, P, Cr, Ni and Ti in stainless steel	Stainless steel	Si, Mn, P, Cr, Ni, Ti	Jul.~ Dec., 2015	500
NILPT-0649-1	Determination of carbon and sulfur content in steel	Steel	C, S	Mar.~ Jul., 2015	400
NILPT-0649-2	Determination of carbon and sulfur content in steel	Steel	C, S	Jul.~ Dec., 2015	400
NILPT-0650	Determination of oxygen and nitrogen content in steel	Steel	O, N	Apr.~Oct., 2015	450
NILPT-0652	Determination of Mo, Al, Ti, Nb and Co in supper alloy	Supper alloy	Mo, Al, Ti, Nb, Co	Apr.~Oct., 2015	450
NILPT-0653	Determination of stannum and arsenic in steel	Steel	Sn, As	Jul.~ Dec., 2015	450
NILPT-0655	Determination of Si, Mn, P, Al and Ca in ferrosilicium alloy	Ferrosilicium alloy	Si, Mn, P, Al, Ca	Apr.~Oct., 2015	450
NILPT-0656	Determination of C, Si, Mn and P in ferromanganese alloy	Ferromanganese alloy	C, Si, Mn, P	Apr.~Oct., 2015	450

NILPT-0657	Determination of Si, Mn, P and S in Si-Mn alloy	Silicon-Manganese alloy	Si, Mn, P, S	Apr.~Oct., 2015	450
NILPT-0661	Determination of Si, Fe, Cu, Mg and Zn in pure aluminum by wet chemistry	Pure aluminum	Si, Fe, Cu, Mg, Zn	Jul.~ Dec., 2015	450
NILPT-0662-1	Determination of Si, Fe, Cu, Mg and Mn in aluminium alloy	Aluminium alloy	Si, Fe, Cu, Mg, Mn	Mar.~ Jul., 2015	500
NILPT-0662-2	Determination of Si, Fe, Cu, Mg and Mn in aluminium alloy	Aluminium alloy	Si, Fe, Cu, Mg, Mn	Jul.~ Dec., 2015	500
NILPT-0663	Determination of Cu, Mg, Fe and Al in zinc alloy	Zinc alloy	Cu, Mg, Fe, Al	Jul.~ Dec., 2015	500
NILPT-0664	Determination of Cu, Pb, Fe and Ni in copper alloy	Copper alloy	Cu, Pb, Fe, Ni	Mar.~ Jul., 2015	500
NILPT-0665	Determination of copper and lead in pure copper	Pure copper	Cu, Pb	Mar.~ Jul., 2015	500
NILPT-0670-1	Determination of TFe, SiO ₂ , P and S in iron ore	Iron ore	TFe, SiO ₂ , P, S	Mar.~ Jul., 2015	450
NILPT-0670-2	Determination of TFe, SiO ₂ , P and S in iron ore	Iron ore	TFe, SiO ₂ , P, S	Jul.~ Dec., 2015	450
NILPT-0671	Determination of CaO, MgO and Al ₂ O ₃ in iron ore	Iron ore	CaO, MgO, Al ₂ O ₃	Apr.~Oct., 2015	450
NILPT-0672	Determination of TFe and FeO in iron ore	Iron ore	TFe, FeO	Apr.~Oct., 2015	450
NILPT-0673	Determination of potassium and sodium in iron ore	Iron ore	K, Na	Apr.~Oct., 2015	450
NILPT-0674	Determination of TMn, TFe, SiO ₂ and Al ₂ O ₃ in manganese ore	Manganese ore	TMn, TFe, SiO ₂ , Al ₂ O ₃	Apr.~Oct., 2015	450
NILPT-0675	Determination of Ni, Cu, Fe and Mg in nickel ore	Nickel ore	Ni, Cu, Fe, Mg	Jul.~ Dec., 2015	450
NILPT-0676	Determination of Zn, Pb, Ni and Cd in zinc ore	Zinc ore	Zn, Pb, Ni, Cd	Jul.~ Dec., 2015	450
NILPT-0678	Determination of Zn, Cu, Pb, Fe and As in zinc concentrates	Zinc concentrates	Zn, Cu, Pb, Fe, As	Apr.~Oct., 2015	450
NILPT-0679	Determination of Cu, S, As and Ag in copper concentrates	Copper concentrates	Cu, S, As, Ag	Apr.~Oct., 2015	450
NILPT-0680	Determination of Pb, Cu, Zn and As in lead concentrates	Lead concentrates	Pb, Cu, Zn, As	Apr.~Oct., 2015	450
NILPT-0682	Determination of Cu, Pb, Zn and Fe in polymetallic-ore	Polymetallic-ore	Cu, Pb, Zn, Fe	Apr.~Oct., 2015	450
NILPT-0683	Determination of Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , CaO and TiO ₂ in bauxite	Bauxite	Al ₂ O ₃ , SiO ₂ , Fe ₂ O ₃ , CaO, TiO ₂	Apr.~Oct., 2015	450
NILPT-0685	Determination of SiO ₂ , CaO, MgO, Fe ₂ O ₃ and Al ₂ O ₃ in silicate rock	Silicate rock	SiO ₂ , CaO, MgO, Fe ₂ O ₃ , Al ₂ O ₃	Jul.~ Dec., 2015	450
NILPT-0687	Determination of gold and silver in ore	Ore	Au, Ag	Apr.~Oct., 2015	500
NILPT-0688	Determination of SiO ₂ , CaO, MgO, Fe ₂ O ₃ and Al ₂ O ₃ in limestone	Limestone	SiO ₂ , CaO, MgO, Fe ₂ O ₃ , Al ₂ O ₃	Apr.~Oct., 2015	450
NILPT-0695	Determination of Fe, Al and Ca in metallurgical silicon	Metallurgical silicon	Fe, Al, Ca	Jul.~ Dec., 2015	450
NILPT-0699	Determination of lead and cadmium content in soil	Soil	Pb, Cd	Apr.~Oct., 2015	400
NILPT-0700	Determination of Ni, Cu and Zn in soil	Soil	Ni, Cu, Zn	Apr.~Oct., 2015	400
NILPT-0701	Determination of total chromium and total mercury in soil	Soil	total chromium, total mercury	Apr.~Oct., 2015	400
NILPT-0702	Determination of total arsenic in soil	Soil	Total arsenic	Apr.~Oct., 2015	400
NILPT-0703	Determination of total phosphorus in soil	Soil	Total phosphorus(T-P)	Jul.~ Dec., 2015	400
NILPT-0704	Determination of total potassium in soil	Soil	Total potassium	Jul.~ Dec., 2015	400
NILPT-0705	Determination of pH in soil	Soil	pH	Apr.~Oct., 2015	400
NILPT-0734-1	Determination of average grain size in metallic materials	Metallic materials	Grain size number	Mar.~ Jul., 2015	450

NILPT-0736	Determination of depth of decarburization of steels	Steels	Depth of decarburization	Apr.~Oct., 2015	450
NILPT-0738	Determination of the depth of carburized cases	Steels	CHD (The hardness method)	Apr.~Oct., 2015	450
NILPT-0739	Metallographic test for gray cast iron	Gray cast iron	Metallographic structure	Apr.~Oct., 2015	450
NILPT-0740	Neutral Salt Spray test in metallic materials (The spray cabinet shall have a capacity of not less than 0.4m ³)	Metallic materials	Mass loss	Apr.~Oct., 2015	500
NILPT-0750	Brinell hardness test for metallic materials	Metallic materials	HBW2.5/187.5	Apr.~Oct., 2015	500
NILPT-0751	Brinell hardness test for metallic materials	Metallic materials	HBW5/750	Apr.~Oct., 2015	500
NILPT-0752-1	Brinell hardness test for metallic materials	Metallic materials	HBW10/3000	Mar.~ Jul., 2015	500
NILPT-0752-2	Brinell hardness test for metallic materials	Metallic materials	HBW10/3000	Jul.~ Dec., 2015	500
NILPT-0753-1	Rockwell hardness test for metallic materials	Metallic materials	HRB	Mar.~ Jul., 2015	500
NILPT-0753-2	Rockwell hardness test for metallic materials	Metallic materials	HRB	Jul.~ Dec., 2015	500
NILPT-0754-1	Rockwell hardness test for metallic materials	Metallic materials	HRC	Apr.~ Jul., 2015	500
NILPT-0754-2	Rockwell hardness test for metallic materials	Metallic materials	HRC	Jul.~ Sep., 2015	500
NILPT-0754-3	Rockwell hardness test for metallic materials	Metallic materials	HRC	Sep.~Dec., 2015	500
NILPT-0755	Rockwell hardness test for metallic materials	Metallic materials	HR15T	Jul.~ Dec., 2015	500
NILPT-0756	Vickers hardness test for metallic materials	Metallic materials	HV0.2	Apr.~Oct., 2015	550
NILPT-0757	Vickers hardness test for metallic materials	Metallic materials	HV5	Apr.~Oct., 2015	550
NILPT-0758-1	Vickers hardness test for metallic materials	Metallic materials	HV10	Mar.~ Jul., 2015	550
NILPT-0758-2	Vickers hardness test for metallic materials	Metallic materials	HV10	Jul.~ Dec., 2015	550
NILPT-0759-1	Room temperature tensile test for metallic materials (Requires matching the chucking head: Φ10mm sample, recommended testing machine: 100kN~1000kN)	Metallic materials	R_m, R_{eL}, A, Z	Mar.~ Jul., 2015	600
NILPT-0759-2	Room temperature tensile test for metallic materials (Requires matching the chucking head: Φ10mm sample, recommended testing machine: 100kN~1000kN)	Metallic materials	R_m, R_{eL}, A, Z	Jul.~ Dec., 2015	600
NILPT-0760	Room temperature tensile test for metallic materials (Requires matching the chucking head: Φ5mm sample, recommended testing machine: 20kN~50kN)	Metallic materials	R_m, R_{eL}, A, Z	Jul.~ Dec., 2015	600
NILPT-0761	Room temperature tensile test for plates of metallic materials (Recommended testing machine: 50kN~100kN)	Metallic materials	R_m, R_{eL}, A	Apr.~Oct., 2015	600
NILPT-0762	Elevated temperature tensile test for metallic materials (Recommended temperature: more than 300℃)	Metallic materials	R_m, R_{eL}, A, Z	Jul.~ Dec., 2015	600
NILPT-0763-1	Room temperature tensile test for hot rolled ribbed steel bar (Recommended testing machine: 300kN~1000kN)	Hot rolled ribbed steel bar	R_m, R_{eL}, A	Mar.~ Jul., 2015	600
NILPT-0763-2	Room temperature tensile test for hot rolled ribbed steel bar (Recommended testing machine: 300kN~1000kN)	Hot rolled ribbed steel bar	R_m, A	Jul.~ Dec., 2015	600

NILPT-0764	Room temperature tensile test for steel wire (Recommended testing machine:50kN~100kN)	Steel wire	R_m, A	Jul.~ Dec., 2015	600
NILPT-0765	Room temperature tensile test for aluminum alloy sheet (Recommended testing machine: 20kN~50kN)	Aluminum alloy sheet	R_m, R_{eL}, A	Jul.~ Dec., 2015	600
NILPT-0768-1	Charpy impact test for metallic materials (Striker R=2mm)	Metallic materials	Impact Absorbed Energy (110~220J)	Mar.~ Jul., 2015	550
NILPT-0768-2	Charpy impact test for metallic materials (Striker R=2mm)	Metallic materials	Impact Absorbed Energy (110~220J)	Jul.~ Dec., 2015	550
NILPT-0769	Charpy impact test for metallic materials (Striker R=2mm)	Metallic materials	Impact Absorbed Energy (30~110J)	Apr.~Oct., 2015	550
NILPT-0770	Low-temperature Charpy impact test for metallic materials (Striker R=2mm)	Metallic materials	Impact Absorbed Energy	Jul.~ Dec., 2015	550
NILPT-0778	Non-destructive testing of welds (Ultrasonic testing)	Steel plate	Location of indication, length of indication	Apr.~Oct., 2015	450
NILPT-0783	Restricted substances in electronic and electrical products – Determination of lead in copper and copper alloys	Electronic and electrical products – copper and copper alloys	Pb	Apr.~Oct., 2015	450
NILPT-0784	Restricted substances in electronic and electrical products – Determination of lead and cadmium content in aluminum and aluminum alloys	Electronic and electrical products – aluminum and aluminum alloys	Pb, Cd	Apr.~Oct., 2015	450
NILPT-0786	Restricted substances in electronic and electrical products – Determination of Pb, Cd, Hg, Cr(VI) and Br in ABS	Electronic and electrical products – ABS	Pb, Cd, Hg, Cr ⁶⁺ , Br	Apr.~Oct., 2015	500
NILPT-0787	Restricted substances in electronic and electrical products – Screening of Pb, Cd, Hg, Cr and Br in ABS	Electronic and electrical products – ABS	Pb, Cd, Hg, Cr, Br	Jul.~ Dec., 2015	450
NILPT-0788	Restricted substances in electronic and electrical products – Determination of flame retardant content in plastic	Electronic and electrical products – plastic	Flame retardant	Apr.~Oct., 2015	450
NILPT-0789	Determination of phthalate plasticizers(DBP & DEHP) in plastic toy	Plastic toy	DBP, DEHP	Apr.~Oct., 2015	450
NILPT-0792	Determination of total arsenic in rice flour	Rice flour	Total arsenic	Apr.~Oct., 2015	450
NILPT-0793	Determination of cadmium in rice flour	Rice flour	Cd	Apr.~Oct., 2015	450

***Note: For NIL PT-0644-1, NIL PT-0644-2, NIL PT-0644-3, NIL PT-0645-1, NIL PT-0645-2, NIL PT-0648-1 and NIL PT-0648-2, NIL PT-0662-1, NIL PT-0662-2, NIL PT-0664, NIL PT-0665, 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:

*** Test samples (or specimens)**

After NIL receives the “Registration Form for PT Schemes” from the participants, test samples shall be distributed along with “INSTRUCTIONS TO PARTICIPANTS”, “SAMPLES RECEIPT FORM” and “RESULT SHEET” 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 submits “Registration Form for PT Schemes”. A formal invoice will be forwarded to the participating laboratory together with the samples

Registration Form for PT Schemes

If your laboratory would like to participate in the PT Schemes in 2015, please tick for ordering and submit your involved details below:

- | | |
|---|---|
| <input type="checkbox"/> NIL PT-0644-1(<input type="checkbox"/> Discs ; <input type="checkbox"/> Chips) | <input type="checkbox"/> NIL PT-0644-2(<input type="checkbox"/> Discs ; <input type="checkbox"/> Chips) |
| <input type="checkbox"/> NIL PT-0644-3(<input type="checkbox"/> Discs ; <input type="checkbox"/> Chips) | <input type="checkbox"/> NIL PT-0645-1(<input type="checkbox"/> Discs ; <input type="checkbox"/> Chips) |
| <input type="checkbox"/> NIL PT-0645-2(<input type="checkbox"/> Discs ; <input type="checkbox"/> Chips) | <input type="checkbox"/> NIL PT-0646 |
| <input type="checkbox"/> NIL PT-0647 | <input type="checkbox"/> NIL PT-0648-1(<input type="checkbox"/> Discs ; <input type="checkbox"/> Chips) |
| <input type="checkbox"/> NIL PT-0648-2(<input type="checkbox"/> Discs ; <input type="checkbox"/> Chips) | <input type="checkbox"/> NIL PT-0649-1 |
| <input type="checkbox"/> NIL PT-0649-2 <input type="checkbox"/> NIL PT-0650 | <input type="checkbox"/> NIL PT-0652 <input type="checkbox"/> NIL PT-0653 |
| <input type="checkbox"/> NIL PT-0655 <input type="checkbox"/> NIL PT-0656 | <input type="checkbox"/> NIL PT-0657 <input type="checkbox"/> NIL PT-0661 |
| <input type="checkbox"/> NIL PT-0662-1(<input type="checkbox"/> Discs ; <input type="checkbox"/> Chips) | <input type="checkbox"/> NIL PT-0662-2(<input type="checkbox"/> Discs ; <input type="checkbox"/> Chips) |
| <input type="checkbox"/> NIL PT-0663 | <input type="checkbox"/> NIL PT-0664 (<input type="checkbox"/> Discs ; <input type="checkbox"/> Chips) |
| <input type="checkbox"/> NIL PT-0665 (<input type="checkbox"/> Discs ; <input type="checkbox"/> Chips) | <input type="checkbox"/> NIL PT-0670-1 <input type="checkbox"/> NIL PT-0670-2 |
| <input type="checkbox"/> NIL PT-0671 <input type="checkbox"/> NIL PT-0672 | <input type="checkbox"/> NIL PT-0673 <input type="checkbox"/> NIL PT-0674 |
| <input type="checkbox"/> NIL PT-0675 <input type="checkbox"/> NIL PT-0676 | <input type="checkbox"/> NIL PT-0678 <input type="checkbox"/> NIL PT-0679 |
| <input type="checkbox"/> NIL PT-0680 <input type="checkbox"/> NIL PT-0682 | <input type="checkbox"/> NIL PT-0683 <input type="checkbox"/> NIL PT-0685 |
| <input type="checkbox"/> NIL PT-0687 <input type="checkbox"/> NIL PT-0688 | <input type="checkbox"/> NIL PT-0695 <input type="checkbox"/> NIL PT-0699 |
| <input type="checkbox"/> NIL PT-0700 <input type="checkbox"/> NIL PT-0701 | <input type="checkbox"/> NIL PT-0702 <input type="checkbox"/> NIL PT-0703 |
| <input type="checkbox"/> NIL PT-0704 <input type="checkbox"/> NIL PT-0705 | <input type="checkbox"/> NIL PT-0734-1 <input type="checkbox"/> NIL PT-0736 |
| <input type="checkbox"/> NIL PT-0738 <input type="checkbox"/> NIL PT-0739 | <input type="checkbox"/> NIL PT-0740 <input type="checkbox"/> NIL PT-0750 |
| <input type="checkbox"/> NIL PT-0751 <input type="checkbox"/> NIL PT-0752-1 | <input type="checkbox"/> NIL PT-0752-2 <input type="checkbox"/> NIL PT-0753-1 |
| <input type="checkbox"/> NIL PT-0753-2 <input type="checkbox"/> NIL PT-0754-1 | <input type="checkbox"/> NIL PT-0754-2 <input type="checkbox"/> NIL PT-0754-3 |
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| <input type="checkbox"/> NIL PT-0764 <input type="checkbox"/> NIL PT-0765 | <input type="checkbox"/> NIL PT-0768-1 <input type="checkbox"/> NIL PT-0768-2 |
| <input type="checkbox"/> NIL PT-0769 <input type="checkbox"/> NIL PT-0770 | <input type="checkbox"/> NIL PT-0778 <input type="checkbox"/> NIL PT-0783 |
| <input type="checkbox"/> NIL PT-0784 <input type="checkbox"/> NIL PT-0786 | <input type="checkbox"/> NIL PT-0787 <input type="checkbox"/> NIL PT-0788 |
| <input type="checkbox"/> NIL PT-0789 <input type="checkbox"/> NIL PT-0792 | <input type="checkbox"/> NIL PT-0793 |

*Note: For NIL PT-0644-1, NIL PT-0644-2, NIL PT-0644-3, NIL PT-0645-1, NIL PT-0645-2, NIL PT-0648-1 and NIL PT-0648-2, NIL PT-0662-1, NIL PT-0662-2, NIL PT-0664, NIL PT-0665, two kinds of samples (discs and chips) are available for different methods. Please choose which kind of samples you would like to receive, discs or chips?



PROFICIENCY TESTING
CNAS PT0002

China NIL Research Center for Proficiency Testing



Name of Laboratory: _____

Postal Address & Zip Code: _____

Contact Person: _____ Country: _____

E-mail: _____

Tel: _____; Fax: _____

Please return this form as soon as possible by e-mail or fax.

China NIL Research Center for Proficiency Testing

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