



## China NIL Research Center for Proficiency Testing

### China NIL Proficiency Testing Schemes (2019)

China NIL Research Center for Proficiency Testing takes great pleasure in informing you that we provide some international proficiency testing schemes in 2019, 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 2019**

Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
<b>Metal and Alloy</b>						
NIL PT-1761-1	Determination of C, Si, Mn, P and S in low and middle alloy steel	Low and middle alloy steel	C, Si, Mn, P, S	Mar.~Jul., 2019	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-1761-2	Determination of C, Si, Mn, P and S in low and middle alloy steel	Low and middle alloy steel	C, Si, Mn, P, S	Jul.~ Sep., 2019	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-1761-3	Determination of C, Si, Mn, P and S in low and middle alloy steel	Low and middle alloy steel	C, Si, Mn, P, S	Sep.~Dec., 2019	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-1762-1	Determination of Cr, Ni, Cu, Mo and Al in low and middle alloy steel	Low and middle alloy steel	Cr, Ni, Cu, Mo, Al	Mar.~ Jul., 2019	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-1762-2	Determination of Cr, Ni, Cu, Mo, Al in low and middle alloy steel	Low and middle alloy steel	Cr, Ni, Cu, Mo, Al	Jul.~ Dec., 2019	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-1763	Determination of Cr, Ni, Cu, Mo and Al in low and middle alloy steel	Low and middle alloy steel	V, Ti, As, Co, Sn	Jul.~ Dec., 2019	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-1764-1	Determination of Cr, Ni, Cu, V and Ti in low and middle alloy steel by inductively coupled plasma atomic emission spectrometry	Low and middle alloy steel	Cr, Ni, Cu, V, Ti	Mar.~ Jul., 2019	300+ carriage	<input type="checkbox"/> Chips
NIL PT-1764-2	Determination of Cr, Ni, Cu, V and Ti in low and middle alloy steel by inductively coupled plasma atomic emission spectrometry	Low and middle alloy steel	Cr, Ni, Cu, V, Ti	Jul.~ Dec., 2019	300+ carriage	<input type="checkbox"/> Chips



## China NIL Research Center for Proficiency Testing

Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NIL PT-1765-1	Determination of C, Si, Mn, P and S in low and middle alloy steel by spark atomic emission spectrometry	Low and middle alloy steel	C, Si, Mn, P, S	Mar.~ Jul., 2019	350+ carriage	<input type="checkbox"/> Discs
NIL PT-1765-2	Determination of C, Si, Mn, P and S in low and middle alloy steel by spark atomic emission spectrometry	Low and middle alloy steel	C, Si, Mn, P, S	Jul.~ Dec., 2019	350+ carriage	<input type="checkbox"/> Discs
NIL PT-1766-1	Determination of Cr, Ni, Cu, Mo and Al in low and middle alloy steel by spark atomic emission spectrometry	Low and middle alloy steel	Cr, Ni, Cu, Mo, Al	Mar.~ Jul., 2019	350+ carriage	<input type="checkbox"/> Discs
NIL PT-1766-2	Determination of Cr, Ni, Cu, Mo and Al in low and middle alloy steel by spark atomic emission spectrometry	Low and middle alloy steel	Cr, Ni, Cu, Mo, Al	Jul.~ Dec., 2019	350+ carriage	<input type="checkbox"/> Discs
NIL PT-1767-1	Determination of Si, Mn, P, Cr, Ni and Ti in stainless steel	Stainless steel	Si, Mn, P, Cr, Ni, Ti	Mar.~ Jul., 2019	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-1767-2	Determination of Si, Mn, P, Cr, Ni and Ti in stainless steel	Stainless steel	Si, Mn, P, Cr, Ni, Ti	Jul.~ Dec., 2019	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-1768-1	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., 2019	350+ carriage	<input type="checkbox"/> Discs
NIL PT-1768-2	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., 2019	350+ carriage	<input type="checkbox"/> Discs
NIL PT-1769	Determination of C, Si, Mn, P, S, Cr in bearing steel	Bearing steel	C, Si, Mn, P, S, Cr	Jul.~ Dec., 2019	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-1771-1	Determination of carbon and sulfur content in steel	Steel	C, S	Mar.~ Jul., 2019	280+ carriage	<input type="checkbox"/> Chips
NIL PT-1771-2	Determination of carbon and sulfur content in steel	Steel	C, S	Jul.~ Sep., 2019	280 + carriage	<input type="checkbox"/> Chips
NIL PT-1771-3	Determination of carbon and sulfur content in steel	Steel	C, S	Sep.~Dec., 2019	280+ carriage	<input type="checkbox"/> Chips
NIL PT-1772-1	Determination of oxygen and nitrogen content in steel	Steel	O, N	Mar.~ Jul., 2019	280 + carriage	<input type="checkbox"/> bar or ball



## China NIL Research Center for Proficiency Testing

NIL PT-1772-2	Determination of oxygen and nitrogen content in steel	Steel	O, N	Jul.~ Dec., 2019	280+ carriage	□bar or ball
NIL PT-1773	Determination of hydrogen in steel	Steel	H	Jul.~ Dec., 2019	300 + carriage	□bar or ball
NIL PT-1775	Determination of Mo, Al, Ti, Nb in supper alloy	Supper alloy	Mo, Al, Ti, Nb	Jul.~ Dec., 2019	400 + carriage	□Chips
NIL PT-1776	Determination of C, Si, Mn, P, S, Cu in Pig-iron	Pig iron	C, Si, Mn, P, S, Cu	Jul.~ Dec., 2019	300+ carriage	□Chips
NIL PT-1777	Determination of Si, Mn, P, Al and Ca in ferrosilicium alloy	Ferrosilicium alloy	Si, Mn, P, Al, Ca	Jul.~ Dec., 2019	300+ carriage	□Chips
NIL PT-1778	Determination of C, Si, Mn and P in ferromanganese alloy	Ferromanganese alloy	C, Si, Mn, P	Jul.~ Dec., 2019	300 + carriage	□Chips
NIL PT-1779	Determination of C, Si, Mn, P,S,Al,Ti in Ferrotitanium	Ferrotitanium	C, Si, Mn, P,S,Al,Ti	Jul.~ Dec., 2019	300 + carriage	□Chips
NIL PT-1780	Determination of C, Si, Mn, P,S, Ni,Cr in ferronickel	Ferronickel	C, Si, Mn, P,S,Ni,Cr	Jul.~ Dec., 2019	300 + carriage	□Chips
NILPT-1781	Determination of C, Si, Mn, P, S and Cr in low-carbon ferrochromium	Low-carbon Ferrochromium	C, Si, Mn, P, S, Cr	Jul.~ Dec., 2019	300 + carriage	□Chips
NIL PT-1782	Determination of Si, Mn, P and S in Si-Mn alloy	Silicon Manganese alloy	Si, Mn, P, S	Jul.~ Dec., 2019	300+ carriage	□Chips
NIL PT-1784	Determination of the mass per unit area of galvanized coatings on steel products	steel products	the mass per unit area of galvanized coatings	Jul.~ Dec., 2019	300+ carriage	□DISCS
NIL PT-1785	Determination of Si, Fe, Cu, Mg and Zn in pure aluminum	Pure aluminum	Si, Fe, Cu, Mg, Zn	Apr.~ Oct., 2019	320 + carriage	□Discs □Chips
NIL PT-1786-1	Determination of Si, Fe, Cu, Mg and Mn in aluminium alloy	Aluminium alloy	Si, Fe, Cu, Mg, Mn	Mar.~ Jul., 2019	320+ carriage	□Discs □Chips
NIL PT-1786-2	Determination of Si, Fe, Cu, Mg and Mn in aluminium alloy	Aluminium alloy	Si, Fe, Cu, Mg, Mn	Jul.~ Dec., 2019	320 + carriage	□Discs □Chips
NILPT-1787	Determination of Cu, Mg, Fe and Al in zinc alloy	Zinc alloy	Cu, Mg, Fe, Al	Jul.~ Dec., 2019	320 + carriage	□Chips
NIL PT-1788	Determination of Sn, Fe, Ni, Al, Si, Pb and Mn in copper alloy	Copper alloy	Sn, Fe, Ni, Al, Si, Pb, Mn	Jul.~ Dec., 2019	320 + carriage	□Discs □Chips
NIL PT-1789	Determination of Cu, Pb and Fe in copper alloy	Copper	Cu,Pb,Fe	Jul.~ Dec., 2019	320 + carriage	□Discs □Chips
NIL PT-1790	Determination of Fe, Al, V and Si in titanium alloy	Titanium alloy	Fe, Al, V,Si	Jul.~ Dec., 2019	350 + carriage	□Discs □Chips



## China NIL Research Center for Proficiency Testing

Ore, Mineral and Metallurgical Material						
Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NIL PT-1798-1	Determination of TFe, SiO <sub>2</sub> , P and S in iron ore	Iron ore	TFe, SiO <sub>2</sub> , P, S	Mar.~ Jul., 2019	300 + carriage	<input type="checkbox"/>
NIL PT-1798-2	Determination of TFe, SiO <sub>2</sub> , P and S in iron ore	Iron ore	TFe, SiO <sub>2</sub> , P, S	Jul.~ Dec., 2019	300 + carriage	<input type="checkbox"/>
NILPT-1799	Determination of CaO, MgO and Al <sub>2</sub> O <sub>3</sub> in iron ore	Iron ore	CaO, MgO, Al <sub>2</sub> O <sub>3</sub>	Apr.~Oct., 2019	300 + carriage	<input type="checkbox"/>
NILPT-1800	Determination of TFe and FeO in iron ore	Iron ore	TFe, FeO	Jul.~ Dec., 2019	300 + carriage	<input type="checkbox"/>
NILPT-1801	Determination of potassium and sodium in iron ore	Iron ore	K, Na	Jul.~ Dec., 2019	300 + carriage	<input type="checkbox"/>
NILPT-1802	Determination of TMn, TFe, SiO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> in manganese ore	Manganese ore	TMn, TFe, SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub>	Jul.~ Dec., 2019	300 + carriage	<input type="checkbox"/>
NIL PT-1803	Determination of CaF <sub>2</sub> , SiO <sub>2</sub> and TFe in fluorite	Fluorite	CaF <sub>2</sub> , SiO <sub>2</sub> , TFe	Jul.~ Dec., 2019	300 + carriage	<input type="checkbox"/>
NIL PT-1804-1	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, MgO, Fe <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub>	Mar.~ Jul., 2019	300 + carriage	<input type="checkbox"/>
NIL PT-1804-2	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, MgO, Fe <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub>	Jul.~ Dec., 2019	300 + carriage	<input type="checkbox"/>
NILPT-1807	Determination of Ni, Cu, Fe and Mg in nickel ore	Nickel ore	Ni, SiO <sub>2</sub> , Fe, Mg	Jul.~ Dec., 2019	300 + carriage	<input type="checkbox"/>
NILPT-1808	Determination of Zn, Pb and Cu in zinc ore	Zinc ore	Zn, Pb, Cu	Jul.~ Dec., 2019	300 + carriage	<input type="checkbox"/>
NILPT-1810	Determination of Zn,Cu,Pb and Fe in zinc concentrates	Zinc concentrates	Zn, Cu, Pb, Fe	Apr.~ Oct., 2019	300 + carriage	<input type="checkbox"/>
NILPT-1811	Determination of Cu, S, Au and Ag in copper concentrates	Copper concentrates	Cu, S, Au ,Ag	Apr.~ Oct., 2019	300 + carriage	<input type="checkbox"/>
NILPT-1812	Determination of Pb, Cu, Zn and As in lead concentrates	Lead concentrates	Pb, Cu, Zn, As	Apr.~ Oct., 2019	300 + carriage	<input type="checkbox"/>
NIL PT-1813	Determination of Cu, Pb, Zn and Fe in polymetallic-ore	Polymetallic ore	Cu, Pb, Zn, Fe	Jul.~ Dec., 2019	300 + carriage	<input type="checkbox"/>
NILPT-1815	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., 2019	300 + carriage	<input type="checkbox"/>



## China NIL Research Center for Proficiency Testing

NILPT-1816	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., 2019	300 + carriage	<input type="checkbox"/>
NILPT-1817	Determination of gold and silver in ore	Ore	Au, Ag	Apr.~ Oct., 2019	300 + carriage	<input type="checkbox"/>
NIL PT-1818	Determination of Fe, Al and Ca in metallurgical silicon	Metallurgical silicon	Fe, Al, Ca	Jul.~ Dec., 2019	300 + carriage	<input type="checkbox"/>
<b>Coal</b>						
<b>Serial No</b>	<b>Title</b>	<b>Test object</b>	<b>Test items</b>	<b>Schedule</b>	<b>Fees (USD)</b>	<b>Select</b>
NIL PT-1825-1	Proximate analysis of coal	Coal	sulphur、 ash、 volatile matter	Mar.~ Jul., 2019	300 + carriage	<input type="checkbox"/>
NIL PT-1825-2	Proximate analysis of coal	Coal	sulphur、 ash、 volatile matter	Jul.~ Dec., 2019	300 + carriage	<input type="checkbox"/>
NIL PT-1826	Determination of calorific value of coal	Coal	calorific value	Jul.~ Dec., 2019	300 + carriage	<input type="checkbox"/>
<b>Construction and Building Materials</b>						
<b>Serial No</b>	<b>Title</b>	<b>Test object</b>	<b>Test items</b>	<b>Schedule</b>	<b>Fees (USD)</b>	<b>Select</b>
NILPT-1840*	Determination of loss on Ignition, magnesium oxide and sulfur trioxide in cement	Cement	Loss on Ignition, MgO, SO <sub>3</sub>	Apr.~ Oct., 2019	450+ carriage	<input type="checkbox"/>
NILPT-1841*	Determination of the Chemical Composition in cement	Cement	SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Fe <sub>2</sub> O <sub>3</sub> , CaO	Apr.~ Oct., 2019	450+ carriage	<input type="checkbox"/>
NILPT-1842*	Determination of chloride ions in cement	Cement	Chloride ions	Apr.~ Oct., 2019	450+ carriage	<input type="checkbox"/>
<b>Environmental Analysis</b>						
<b>Serial No</b>	<b>Title</b>	<b>Test object</b>	<b>Test items</b>	<b>Schedule</b>	<b>Fees (USD)</b>	<b>Select</b>
NILPT-1849-1	Determination of lead and cadmium content in soil	Soil	Pb, Cd	Mar.~ Aug, 2019	300 + carriage	<input type="checkbox"/>
NILPT-1849-2	Determination of lead and cadmium content in soil	Soil	Pb, Cd	Jul.~ Dec., 2019	300 + carriage	<input type="checkbox"/>
NILPT-1850-1	Determination of Nickel,Copper,Zinc content in soil	Soil	Ni, Cu, Zn	Mar.~ Aug, 2019	300 + carriage	<input type="checkbox"/>
NILPT-1850-2	Determination of Nickel,Copper,Zinc content in soil	Soil	Ni, Cu, Zn	Jul.~ Dec., 2019	300 + carriage	<input type="checkbox"/>
NILPT-1851-1	Determination of total mercury and total Arsenic in soil	Soil	Total Hg 、 Total As	Mar.~ Aug, 2019	300 + carriage	<input type="checkbox"/>



## China NIL Research Center for Proficiency Testing

NILPT-1851-2	Determination of total mercury and total Arsenic in soil	Soil	Total Hg 、 Total As	Jul.~ Dec., 2019	300 + carriage	<input type="checkbox"/>
NILPT-1852-1	Determination of total chromium content in soil	Soil	Total Cr	Mar.~ Aug, 2019	300 + carriage	<input type="checkbox"/>
NILPT-1852-2	Determination of total chromium content in soil	Soil	Total Cr	Jul.~ Dec., 2019	300 + carriage	<input type="checkbox"/>
NILPT-1853-1	Determination of total Phosphorus in soil	Soil	Total P	Mar.~ Aug, 2019	300 + carriage	<input type="checkbox"/>
NILPT-1853-2	Determination of total Phosphorus in soil	Soil	Total P	Jul.~ Dec., 2019	300 + carriage	<input type="checkbox"/>
NILPT-1855	Determination of total total nitrogen in soil	Soil	Total N	Jul.~ Dec., 2019	300 + carriage	<input type="checkbox"/>
NILPT-1857-1	Determination of pH in soil	Soil	pH at 25°C	Mar.~ Aug, 2019	300 + carriage	<input type="checkbox"/>
NILPT-1857-2	Determination of pH in soil	Soil	pH at 25°C	Jul.~ Dec., 2019	300 + carriage	<input type="checkbox"/>

### Textile

Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NILPT-1990	Determination of pH in textile	Textile	pH	Jul.~ Dec., 2019	300 + carriage	<input type="checkbox"/>
NILPT-1991	Determination of formaldehyde in textile (water extraction method)	Textile	Formaldehyde	Jul.~ Dec., 2019	300 + carriage	<input type="checkbox"/>

### RoHS

Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NILPT-1992	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., 2019	320 + carriage	<input type="checkbox"/>
NILPT-1993	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., 2019	320 + carriage	<input type="checkbox"/>
NILPT-1994	Restricted substances in electronic and electrical products –	Electronic and electrical	Pb, Cd	Apr.~Oct., 2019	320 + carriage	<input type="checkbox"/>



## China NIL Research Center for Proficiency Testing

	Determination of Pb and Cd content in zinc and zinc alloys	products – zinc and zinc alloys				
NIL PT-1995	Restricted substances in electronic and electrical products – Determination of noxious substance content in ABS	Electronic and electrical products – ABS	Pb, Cd, Hg, Cr (VI) , Br	Apr.~Oct., 2019	400 + carriage	<input type="checkbox"/>
NIL PT-1997	Restricted substances in electronic and electrical products – Determination of flame retardant content in plastic	Electronic and electrical products – plastic	BDE-209	Apr.~Oct., 2019	400 + carriage	<input type="checkbox"/>
<b>Plastic</b>						
Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NIL PT-1998	Determination of phthalate plasticizers in plastic toy	Plastic toy	DBP, DEHP, BBP, DINP, DIDP, DNOP	Jul.~ Dec., 2019	400 + carriage	<input type="checkbox"/>
NILPT-1999	Determination of polycyclic aromatic hydrocarbons in plastic	Plastic	Polycyclic aromatic hydrocarbons	Jul.~ Dec., 2019	400 + carriage	<input type="checkbox"/>
NIL PT-2006	Determination of plastic density (ISO 1183-1, method A-Immersion method)	Plastics	Density	Jul.~ Dec., 2019	450+ carriage	<input type="checkbox"/>
NIL PT-2007	Determination of charpy impact properties(ISO 179-1)	Plastics	Charpy notched impact strength	Jul.~ Dec., 2019	550+ carriage	<input type="checkbox"/>
NIL PT-2008	Determination of tensile properties(ISO 527-1/-2)	Plastics	Stress at yield, strength, stress at 5% strain, strain at yield	Jul.~ Dec., 2019	550+ carriage	<input type="checkbox"/>
NIL PT-2009	Determination of izod impact strength(ISO 180)	Plastics	izod impact strength	Jul.~ Dec., 2019	550+ 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-2017-1	Determination of average grain size in metallic materials(only for Intercept Procedure)	Metallic materials	Grain size number	Mar.~ Jul., 2019	400+ carriage	<input type="checkbox"/>
NIL PT-2017-2	Determination of average grain size in metallic materials(only for Intercept Procedure)	Metallic materials	Grain size number	Jul.~ Dec., 2019	400+ carriage	<input type="checkbox"/>
NIL PT-2020	Determination of depth of decarburization of steels	Steels	Depth of decarburization	Jul.~ Dec., 2019	400+ carriage	<input type="checkbox"/>
NIL PT-2027	Determination of average grain size in aluminium alloy(only for Intercept Procedure)	Aluminium alloy	Grain size number	Apr.~ Oct., 2019	400+ carriage	<input type="checkbox"/>
Mechanical Properties for Materials						
Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NIL PT-2042-1	Brinell hardness test for metallic materials(only for ISO 6506-1)	Metallic materials	HBW 2.5/187.5	Mar.~ Jul., 2019	450+ carriage	<input type="checkbox"/>
NIL PT-2042-2	Brinell hardness test for metallic materials(only for ISO 6506-1)	Metallic materials	HBW 2.5/187.5	Jul.~ Dec., 2019	450+ carriage	<input type="checkbox"/>
NIL PT-2043-1	Brinell hardness test for metallic materials(only for ISO 6506-1)	Metallic materials	HBW 5/750	Mar.~ Jul., 2019	450+ carriage	<input type="checkbox"/>
NIL PT-2043-2	Brinell hardness test for metallic materials(only for ISO 6506-1)	Metallic materials	HBW 5/750	Jul.~ Dec., 2019	450+ carriage	<input type="checkbox"/>
NIL PT-2044-1	Brinell hardness test for metallic materials(only for ISO 6506-1)	Metallic materials	HBW 10/3000	Mar.~ Jul., 2019	450+ carriage	<input type="checkbox"/>
NIL PT-2044-2	Brinell hardness test for metallic materials(only for ISO 6506-1)	Metallic materials	HBW 10/3000	Jul.~ Dec., 2019	450+ carriage	<input type="checkbox"/>
NIL PT-2045	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Metallic materials	HRA	Mar.~ Jul., 2019	450+ carriage	<input type="checkbox"/>
NIL PT-2046-1	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Metallic materials	HRB	Mar.~ Jul., 2019	450+ carriage	<input type="checkbox"/>
NIL PT-2046-2	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Metallic materials	HRB	Jul.~ Dec., 2019	450+ carriage	<input type="checkbox"/>





## China NIL Research Center for Proficiency Testing

NIL PT-2047-1	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Metallic materials	HRC	Mar.~Jul., 2019	450+ carriage	<input type="checkbox"/>
NIL PT-2047-2	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Metallic materials	HRC	Jul~ Sep., 2019	450+ carriage	<input type="checkbox"/>
NIL PT-2047-3	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Metallic materials	HRC	Sep.~Dec., 2019	450+ carriage	<input type="checkbox"/>
NIL PT-2048	Vickers hardness test for metallic materials (only for ISO 6507-1)	Metallic materials	HV0.2	Jul.~ Dec., 2019	500+ carriage	<input type="checkbox"/>
NIL PT-2049	Vickers hardness test for metallic materials (only for ISO 6507-1)	Metallic materials	HV5	Jul.~ Dec., 2019	450+ carriage	<input type="checkbox"/>
NIL PT-2050-1	Vickers hardness test for metallic materials (only for ISO 6507-1)	Metallic materials	HV10	Mar.~ Jul., 2019	450+ carriage	<input type="checkbox"/>
NIL PT-2050-2	Vickers hardness test for metallic materials (only for ISO 6507-1)	Metallic materials	HV10	Jul.~ Dec., 2019	450+ carriage	<input type="checkbox"/>
NIL PT-2052-1	Room temperature tensile test for metallic materials (Recommended testing machine: 100kN~300kN. 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., 2019	600+ carriage	<input type="checkbox"/>
NIL PT-2052-2	Room temperature tensile test for metallic materials (Recommended testing machine: 100kN~300kN. 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., 2019	600+ carriage	<input type="checkbox"/>
NIL PT-2053	Room temperature tensile test for metallic materials (Recommended testing machine: 50kN~300kN. Diameter of sample: Φ5mm, M12 normal screw threaded both ends. Matched chucking heads are	Metallic materials	$R_m, R_{eL}, A, Z, R_{p0.2}$	Apr.~Oct., 2019	600+ carriage	<input type="checkbox"/>

## China NIL Research Center for Proficiency Testing

	required. only for ISO 6892-1 )					
NIL PT-2054	Room temperature tensile test for metallic materials (Recommended testing machine: 300kN~1000kN. 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., 2019	600+ carriage	<input type="checkbox"/>
NIL PT-2055	Room temperature tensile test for cold-rolled plate (Recommended testing machine: 50kN~100kN. only for ISO 6892-1)	Cold-rolled plate	$R_m, A, R_{p0.2}$	Apr.~Oct., 2019	550+ carriage	<input type="checkbox"/>
NIL PT-2056	Room temperature tensile test for hot-rolled plate (Recommended testing machine: 100kN~300kN. only for ISO 6892-1)	Hot-rolled plate	$R_m, R_{eL}, A, R_{p0.2}$	Mar.~ Jul., 2019	550+ carriage	<input type="checkbox"/>
NIL PT-2057	Room temperature tensile test for hot-rolled plate (Recommended testing machine: 300kN~600kN. only for ISO 6892-1)	Hot-rolled plate	$R_m, R_{eL}, A, R_{p0.2}$	Jul.~ Dec., 2019	550+ carriage	<input type="checkbox"/>
NIL PT-2058	Elevated temperature tensile test for metallic materials (Diameter of sample: Φ5mm, M12 normal screw threaded both ends. Matched chucking heads are required. Temperature: $\geq 300^\circ\text{C}$ . only for ISO 6892-2)	Metallic materials	$R_m, A, Z, R_{p0.2}$	Apr.~Oct., 2019	600+ carriage	<input type="checkbox"/>
NIL PT-2061	Room temperature tensile test for aluminum alloy sheet (Recommended testing machine: 20kN~50kN. only for ISO 6892-1)	Aluminum alloy sheet	$R_m, A, R_{p0.2}$	Jul.~ Dec., 2019	550+ carriage	<input type="checkbox"/>
NIL PT-2063-1	Charpy impact test for metallic materials (Striker R=2mm. Recommended testing machine: $\geq 300\text{J}$ . only for ISO 148-1)	Metallic materials	Impact Absorbed Energy	Mar.~ Jul., 2019	500+ carriage	<input type="checkbox"/>
NIL PT-2063-2	Charpy impact test for metallic materials (Striker R=2mm. Recommended testing machine: $\geq 300\text{J}$ . only for ISO 148-1)	Metallic materials	Impact Absorbed Energy	Jul.~ Dec., 2019	500+ carriage	<input type="checkbox"/>
NIL PT-2064	Charpy impact test for metallic materials (Striker R=2mm.	Metallic materials	Impact Absorbed	Apr.~Oct., 2019	500+ carriage	<input type="checkbox"/>



## China NIL Research Center for Proficiency Testing

	Recommended testing machine: ≥150J. only for ISO 148-1)		Energy			
NIL PT-2065	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., 2019	500+ carriage	<input type="checkbox"/>
<b>Mechanical Properties for Materials (Special for ASTM standard and Nadcap Accreditation)</b>						
Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NIL PT-2072	Room temperature tensile test for metallic materials (Diameter of sample: Φ12.5mm, Recommended testing machine: 100kN~300kN. for ASTM E8/E8M)	Metallic materials	tensile strength ,lower yield strength, elongation after fracture, reduction of area	Jul.~ Dec., 2019	650+ carriage	<input type="checkbox"/>
NIL PT-2073	Charpy impact test for metallic materials (Striker R=8mm. Recommended testing machine: ≥150J. for ASTM E23)	Metallic materials	Impact Absorbed Energy	Jul.~ Dec., 2019	550+ carriage	<input type="checkbox"/>
NIL PT-2074	Brinell hardness test for metallic materials(for ASTM E10)	Metallic materials	HBW 10/3000	Jul.~ Dec., 2019	550+ carriage	<input type="checkbox"/>
NIL PT-2075	Rockwell hardness test for metallic materials(for ASTM E18)	Metallic materials	HRC	Jul.~ Dec., 2019	550+ carriage	<input type="checkbox"/>
NIL PT-2076	Vickers hardness test for metallic materials(for ASTM E92)	Metallic materials	HV10	Jul.~ Dec., 2019	600+ carriage	<input type="checkbox"/>
NIL PT-2077	Determination of average grain size in metallic materials (Recommendation for Intercept Procedure. for ASTM E112)	Metallic materials	Grain size number	Jul.~ Dec., 2019	450+ carriage	<input type="checkbox"/>
<b>Non-destructive Test for Metallic Material</b>						
NIL PT-2086	Non-destructive tesitng of welds(Ultrasonic testing) (Sequential scheme)	Steel Plate	Location of indication, length of indication	Apr.~Dec., 2019	500+ carriage	<input type="checkbox"/>



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**\*Note:** For NIL PT-1761-1, NIL PT-1761-2, NIL PT-1761-3, NIL PT-1762-1, NIL PT-1762-2, NIL PT-1763, NIL PT-1767-1, NIL PT-1767-2, NIL PT-1769, NIL PT-1785, NIL PT-1786-1, NIL PT-1786-2, NIL PT-1787, NIL PT-1788, NIL PT-1789, NIL PT-1790, 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.



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### 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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**Contact Person: Ms. CHEN Jinghua, Ms. YAN Dongxia**

**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.