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China NIL Research Center for Proficiency Testing

China NIL Proficiency Testing Schemes (2022)

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”. The international proficiency testing schemes for 2022 are listed in the following Table 1.

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Table 1NILProficiency Testing Schemes for 2022

Metal and Alloy						
Serial No	Title	Test object	Test property	Registration deadline	Fees (USD)	Select
NILPT-3032-1	Determination of C, Si, Mn, P and S in medium and low alloy steel	Medium and low alloy steel	C, Si, Mn, P, S	Apr., 2022	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-3032-2	Determination of C, Si, Mn, P and S in medium and low alloy steel	Medium and low alloy steel	C, Si, Mn, P, S	Jul., 2022	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-3032-3	Determination of C, Si, Mn, P and S in medium and low alloy steel	Medium and low alloy steel	C, Si, Mn, P, S	Sept., 2022	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-3033-1	Determination of Cr, Ni, Cu, Mo and Al in medium and low alloy steel	Medium and low alloy steel	Cr, Ni, Cu, Mo, Al	Apr., 2022	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-3033-2	Determination of Cr, Ni, Cu, Mo and Al in medium and low alloy steel	Medium and low alloy steel	Cr, Ni, Cu, Mo, Al	Jul., 2022	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-3034-1	Determination of Cr, Ni, Cu, V and Ti in medium and low alloy steel by inductively coupled plasma atomic emission spectrometry	Medium and low alloy steel	Cr, Ni, Cu, V, Ti	Apr., 2022	300+ carriage	<input type="checkbox"/> Chips
NILPT-3034-2	Determination of Cr, Ni, Cu, V and Ti in medium and low alloy steel by inductively coupled plasma atomic emission spectrometry	Medium and low alloy steel	Cr, Ni, Cu, V, Ti	Jul., 2022	300+ carriage	<input type="checkbox"/> Chips
NILPT-3035-1	Determination of C, Si, Mn, P and S in medium and low alloy steel by spark atomic emission spectrometry	Medium and low alloy steel	C, Si, Mn, P, S	Apr., 2022	350+ carriage	<input type="checkbox"/> Discs
NILPT-3035-2	Determination of C, Si, Mn, P and S in medium and low alloy steel by spark atomic emission spectrometry	Medium and low alloy steel	C, Si, Mn, P, S	Jul., 2022	350+ carriage	<input type="checkbox"/> Discs
NILPT-3036-1	Determination of Cr, Ni, Cu, Mo and Al in medium and low alloy steel by spark atomic emission spectrometry	Medium and low alloy steel	Cr, Ni, Cu, Mo, Al	Apr., 2022	350+ carriage	<input type="checkbox"/> Discs
NILPT-3036-2	Determination of Cr, Ni, Cu, Mo and Al in medium and low alloy steel by spark atomic emission spectrometry	Medium and low alloy steel	Cr, Ni, Cu, Mo, Al	Jul., 2022	350+ carriage	<input type="checkbox"/> Discs



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Serial No	Title	Test object	Test property	Registration deadline	Fees (USD)	Select
NIL PT-3037-1	Determination of Si, Mn, P, Cr, Ni and Ti in stainless steel	Stainless steel	Si, Mn, P, Cr, Ni, Ti	Apr., 2022	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-3037-2	Determination of Si, Mn, P, Cr, Ni and Ti in stainless steel	Stainless steel	Si, Mn, P, Cr, Ni, Ti	Aug., 2022	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-3038-1	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	Apr., 2022	350+ carriage	<input type="checkbox"/> Discs
NIL PT-3038-2	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	Aug., 2022	350+ carriage	<input type="checkbox"/> Discs
NIL PT-3039	Determination of C, Si, Mn, P, S and Cr in Bearing steel	Bearing steel	C, Si, Mn, P, S, Cr	Jul., 2022	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-3040	Determination of C, Si, P, S, Mo in Ferromolybdenum	Ferromolybdenum	C, Si, P, S, Mo	Aug., 2022	350+ carriage	<input type="checkbox"/> Chips
NIL PT-3041-1	Determination of carbon and sulfur content in steel	Steel	C, S	Apr., 2022	280+ carriage	<input type="checkbox"/> Chips
NIL PT-3041-2	Determination of carbon and sulfur content in steel	Steel	C, S	Jul., 2022	280 + carriage	<input type="checkbox"/> Chips
NIL PT-3041-3	Determination of carbon and sulfur content in steel	Steel	C, S	Sept., 2022	280+ carriage	<input type="checkbox"/> Chips
NIL PT-3042-1	Determination of oxygen and nitrogen content in steel	Steel	O, N	Jul., 2022	280 + carriage	<input type="checkbox"/> Chips
NIL PT-3042-2	Determination of oxygen and nitrogen content in steel	Steel	O, N	Sept., 2022	280+ carriage	<input type="checkbox"/> Chips
NIL PT-3043	Determination of hydrogen in steel	Steel	H	Sept., 2022	300 + carriage	<input type="checkbox"/> Chips
NIL PT-3044	Determination of Mo, Al, Ti, Nb in High-Temperature Alloy	High-Temperature Alloy	Mo, Al, Ti, Nb	Aug., 2022	400 + carriage	<input type="checkbox"/> Chips
NIL PT-3047	Determination of Si, Mn, P, Al and Ca in ferrosilicon	Ferrosilicon	Si, Mn, P, Al, Ca	Aug., 2022	300+ carriage	<input type="checkbox"/> Chips
NIL PT-3048	Determination of C, Si, Mn and P in ferromanganese	Ferromanganese	C, Si, Mn, P	Aug., 2022	300 + carriage	<input type="checkbox"/> Chips
NIL PT-3049	Determination of C, Si, Mn, P, S, Ni, Cr in ferronickel	Ferronickel	C, Si, Mn, P, S, Ni, Cr	Sept., 2022	300 + carriage	<input type="checkbox"/> Chips
NIL PT-3050	Determination of C, Si, Mn, P and Cr in low-carbon ferrochromium	Low-carbon Ferrochromium	C, Si, Mn, P, Cr	Aug., 2022	300 + carriage	<input type="checkbox"/> Chips



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NIL PT-3051	Determination of Si, Mn, P and S in Silicon manganese alloy	Silicon manganese alloy	Si, Mn, P, S	Sept., 2022	300+ carriage	<input type="checkbox"/> Chips
NIL PT-3052	Determination of C, Si, Mn, P, S, V and Al in Ferrovanadium	Ferrovanadium	C, Si, Mn, P, S, V, Al	Sept., 2022	400+ carriage	<input type="checkbox"/> Chips
NIL PT-3054	Determination of Si, Fe, Cu, Mg and Zn in Pure Aluminum	Pure Aluminum	Si, Fe, Cu, Mg, Zn	Oct., 2022	320 + carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-3055-1	Determination of Si, Fe, Cu, Mg and Mn in aluminum alloy	Aluminum alloy	Si, Fe, Cu, Mg, Mn	May., 2022	320+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-3055-2	Determination of Si, Fe, Cu, Mg and Mn in aluminum alloy	Aluminum alloy	Si, Fe, Cu, Mg, Mn	Aug., 2022	320 + carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-3056	Determination of Si, Fe, Cu, Cr, Ti, Zn in aluminum alloy by spark atomic emission spectrometry	Aluminum alloy	Si, Fe, Cu, Cr, Ti, Zn	Sept., 2022	320 + carriage	<input type="checkbox"/> Discs
NIL PT-3057	Determination of Cu, Mg, Fe and Al in zinc alloy	Zinc alloy	Cu, Mg, Fe, Al	Sept., 2022	320 + carriage	<input type="checkbox"/> Chips
NIL PT-3058	Determination of Sn, Fe, Ni, Al, Si in copper alloy	Copper alloy	Sn, Fe, Ni, Al, Si	Sept., 2022	320 + carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-3062	Determination of Fe, Al, V and Si in titanium alloy	Titanium alloy	Fe, Al, V, Si	Jul., 2022	350 + carriage	<input type="checkbox"/> Chips
NIL PT-3063	Determination of O, N, and H in titanium alloy	Titanium alloy	O, N, H	Oct., 2022	350 + carriage	<input type="checkbox"/> Chips
Mineral and Metallurgical Material						
Serial No	Title	Test object	Test property	Registration deadline	Fees (USD)	Select
NILPT-3071-1	Determination of TFe, SiO ₂ , P and S in iron ore	Iron ore	TFe, SiO ₂ , P, S	Apr., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3071-2	Determination of TFe, SiO ₂ , P and S in iron ore	Iron ore	TFe, SiO ₂ , P, S	Jul., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3072	Determination of CaO, MgO and Al ₂ O ₃ in iron ore	Iron ore	CaO, MgO, Al ₂ O ₃	May., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3073	Determination of TFe and FeO in iron ore	Iron ore	TFe, FeO	Jul., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3074	Determination of potassium and sodium in iron ore	Iron ore	K, Na	Jul., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3075	Determination of Ca, Si, Mn, Al, P, Mg and Ti in iron ore by X-ray fluorescence spectrometry	Iron ore	Ca, Si, Mn, Al, P, Mg, Ti	Jul., 2022	450 + carriage	<input type="checkbox"/>



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NILPT-3077	Determination of Mn and Ti in iron ore	Iron ore	Mn, Ti	Sept., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3078	Determination of TMn, TFe, SiO ₂ and Al ₂ O ₃ in manganese ore	Manganese ore	TMn, TFe, SiO ₂ , Al ₂ O ₃	Jul., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3079	Determination of TiO ₂ and Ni in manganese ore	Manganese ore	TiO ₂ , Ni	Sept., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3080	Determination of CaF ₂ , SiO ₂ and TFe in fluorite	Fluorite	CaF ₂ , SiO ₂ , TFe	Jul., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3081-1	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., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3081-2	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	Jul., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3082	Determination of Ni, SiO ₂ , TFe and MgO in nickel ore	Nickel ore	Ni, SiO ₂ , TFe, MgO	Jul., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3083	Determination of Zn, Pb and Cu in zinc ore	Zinc ore	Zn, Pb, Cu	Jul., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3085	Determination of Zn,As,Pb and Cd in zinc concentrates	Zinc concentrates	Zn, As, Pb, Cd	May., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3087	Determination of Cu, S, Au and Ag in copper concentrates	Copper concentrates	Cu, S, Au ,Ag	May., 2022	320 + carriage	<input type="checkbox"/>
NILPT-3088	Determination of Pb, Cu, Zn and As in lead concentrates	Lead concentrates	Pb, Cu, Zn, As	May., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3089	Determination of Cu, Pb, Zn and Fe in polymetallicore	Polymetallic ore	Cu, Pb, Zn, Fe	May., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3091	Determination of Al ₂ O ₃ , SiO ₂ , Li ₂ O, CaO and TiO ₂ in bauxite	Bauxite	Al ₂ O ₃ , SiO ₂ , Li ₂ O, CaO, TiO ₂	May., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3092	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	May., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3093	Determination of gold and silver in ore	Ore	Au, Ag	May., 2022	350 + carriage	<input type="checkbox"/>
NILPT-3094	Determination of Fe, Al and Ca in metallurgical silicon	Metallurgical silicon	Fe, Al, Ca	May., 2022	300 + carriage	<input type="checkbox"/>



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NILPT-3096	Determination of SiO ₂ , CaO, MgO, Al ₂ O ₃ and Fe ₂ O ₃ in high-alumina refractories	High-alumina refractories	SiO ₂ , CaO, MgO, Al ₂ O ₃ , Fe ₂ O ₃	Jun., 2022	300 + carriage	<input type="checkbox"/>
Coal and Coke						
Serial No	Title	Test object	Test property	Registration deadline	Fees (USD)	Select
NILPT-3099-1	Proximate analysis of coke	Coke	Sulphur,ash, volatile matter	Apr., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3099-2	Proximate analysis of coke	Coke	Sulphur,ash, volatile matter	Jul., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3100-1	Proximate analysis of coal	Coal	Sulphur,ash, volatile matter	Apr., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3100-2	Proximate analysis of coal	Coal	Sulphur,ash, volatile matter	Jul., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3101	Determination of calorific value of coal	Coal	Calorific value	May., 2022	300 + carriage	<input type="checkbox"/>
Cement						
Serial No	Title	Test object	Test property	Registration deadline	Fees (USD)	Select
NILPT-3115	Determination of loss on ignition, magnesium oxide, Calcium oxide and sulfur trioxide in cement	Cement	Loss on ignition, MgO, CaO, SO ₃	May., 2022	450+ carriage	<input type="checkbox"/>
NILPT-3116	Determination of chloride ions in cement	Cement	Chloride ions	May., 2022	450+ carriage	<input type="checkbox"/>
Soil						
Serial No	Title	Test object	Test property	Registration deadline	Fees (USD)	Select
NILPT-3133-1	Determination of lead and cadmium in soil	Soil	Pb ,Cd	May., 2022	350 + carriage	<input type="checkbox"/>
NILPT-3133-2	Determination of lead and cadmium content in soil	Soil	Pb ,Cd	Aug., 2022	350 + carriage	<input type="checkbox"/>
NILPT-3134-1	Determination of nickel,copper,zinc content in soil	Soil	Ni,Cu,Zn	May., 2022	350 + carriage	<input type="checkbox"/>
NILPT-3134-2	Determination of nickel,copper,zinc content in soil	Soil	Ni,Cu,Zn	Aug., 2022	350 + carriage	<input type="checkbox"/>
NILPT-3135-1	Determination of total mercury and total arsenic in soil	Soil	Total Hg, Total As	May., 2022	350 + carriage	<input type="checkbox"/>
NILPT-3135-2	Determination of total mercury and total arsenic in soil	Soil	Total Hg ,Total As	Aug., 2022	350 + carriage	<input type="checkbox"/>



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NILPT-3136-1	Determination of total chromium content in soil	Soil	Total Cr	May., 2022	350 + carriage	<input type="checkbox"/>
NILPT-3136-2	Determination of total chromium content in soil	Soil	Total Cr	Aug., 2022	350 + carriage	<input type="checkbox"/>
NILPT-3137	Determination of total phosphorus in soil	Soil	Total P	Aug., 2022	350 + carriage	<input type="checkbox"/>
NILPT-3138	Determination of total potassium in soil	Soil	Total K	Aug., 2022	350 + carriage	<input type="checkbox"/>
NILPT-3139	Determination of total nitrogen in soil	Soil	Total N	Aug., 2022	350 + carriage	<input type="checkbox"/>
NILPT-3141-1	Determination of pH in soil	Soil	pH at 25°C	May., 2022	350 + carriage	<input type="checkbox"/>
NILPT-3141-2	Determination of pH in soil	Soil	pH at 25°C	Aug., 2022	350 + carriage	<input type="checkbox"/>
Textile						
Serial No	Title	Test object	Test property	Registration deadline	Fees (USD)	Select
NILPT-3341	Determination of maximum force for textiles	Textile	Maximum force(strip method)	Jul., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3342	Determination of tear force using ballistic pendulum method for textiles	Textile	Tear force(ballistic pendulum method)	Jul., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3346	Determination of pH in textile	Textile	pH	Jul., 2022	300 + carriage	<input type="checkbox"/>
NILPT-3347	Determination of formaldehyde in textile (water extraction method)	Textile	Formaldehyde	Aug., 2022	300 + carriage	<input type="checkbox"/>
RoHS						
Serial No	Title	Test object	Test property	Registration deadline	Fees (USD)	Select
NILPT-3359	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	Jun., 2022	320 + carriage	<input type="checkbox"/>
NILPT-3360	Restricted substances in electronic	Electronic and	Pb, Cd	Jun., 2022	320 +	<input type="checkbox"/>



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	and electrical products – Determination of Pb and Cd content in aluminum and aluminum alloys	electrical products – aluminum and aluminum alloys			carriage	
NILPT-3361	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	Jun., 2022	320 + carriage	<input type="checkbox"/>
NILPT-3362	Restricted substances in electronic and electrical products – Determination of noxious substance content in ABS	Electronic and electrical products – ABS	Pb, Cd, Hg, Br	Jul., 2022	400 + carriage	<input type="checkbox"/>
NILPT-3364	Restricted substances in electronic and electrical products – Determination of flame retardant content in plastic	Electronic and electrical products – plastic	BDE-209	Jul., 2022	400 + carriage	<input type="checkbox"/>
Plastic						
Serial No	Title	Test object	Test property	Registration deadline	Fees (USD)	Select
NILPT-3365	Determination of phthalate plasticizers in plastic toy	Plastic toy materials	DBP, DEHP, BBP, DINP, DIDP, DNOP	Aug.2022	450 + carriage	<input type="checkbox"/>
NILPT-3519	Determination of halogen elements in plastic	Plastics	Cl, Br	Sep.,2022	500+ carriage	<input type="checkbox"/>
NILPT-3367	Determination of the melt mass-flow rate (MFR) of thermoplastics(ISO 1133-1)	Plastics	MFR	Jul.2022	450 + carriage	<input type="checkbox"/>
NILPT-3370	Determination of vicat softening temperature of plastics (ISO 306)	Plastics	vicat softening temperature	Jul.2022	550+ carriage	<input type="checkbox"/>
NILPT-3374	Determination of density of plastic (ISO 1183-1,method A-Immersion method)	Plastics	Density	Jul.2022	450+ carriage	<input type="checkbox"/>
NILPT-3375	Determination of charpy impact properties of plastic (ISO 179-1)	Plastics	Charpy notched impact strength	Jul.2022	550+ carriage	<input type="checkbox"/>
NILPT-3376	Determination of tensile properties of plastic (ISO 527-1/-2)	Plastics	stress at yield, strength, stress at 5% strain, strain at yield	Jul.2022	550+ carriage	<input type="checkbox"/>
Microstructure of metal Materials						



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Serial No	Title	Test object	Test property	Registration deadline	Fees (USD)	Select
NIL PT-3394	Determination of average grain size in metallic materials(only for Intercept Procedure)	Steel(Photo)	Grain size number	Apr. 2022	300+ carriage	<input type="checkbox"/>
NIL PT-3395	Determination of average grain size in metallic materials(only for Intercept Procedure)	Steel(Material object)	Grain size number	Aug. 2022	450+ carriage	<input type="checkbox"/>
NILPT-3397	Determination of average grain size in aluminiumalloy(only for Intercept Procedure)	Aluminium alloy(Photo)	Grain size number	Jul. 2022	300+ carriage	<input type="checkbox"/>
NILPT-3400	Determination of depth of decarburization of steels	Steel	Depth of total decarburization, Depth of complete decarburization	Jul. 2022	400+ carriage	<input type="checkbox"/>
Mechanical Properties for metal Materials(special for ISO standard)						
Serial No	Title	Test object	Test property	Registration deadline	Fees (USD)	Select
NILPT-3425-1	Brinell hardness test for metallic materials(only for ISO 6506-1)	Steel	HBW 2.5/187.5	May.2022	450+ carriage	<input type="checkbox"/>
NILPT-3425-2	Brinell hardness test for metallic materials(only for ISO 6506-1)	Steel	HBW 2.5/187.5	Sept.2022	450+ carriage	<input type="checkbox"/>
NILPT-3426-1	Brinell hardness test for metallic materials(only for ISO 6506-1)	Steel	HBW 5/750	Apr.2022	450+ carriage	<input type="checkbox"/>
NILPT-3426-2	Brinell hardness test for metallic materials(only for ISO 6506-1)	Steel	HBW 5/750	Aug.2022	450+ carriage	<input type="checkbox"/>
NILPT-3430-1	Brinell hardness test for metallic materials(only for ISO 6506-1)	Steel	HBW 10/3000	Apr.2022	450+ carriage	<input type="checkbox"/>
NILPT-3427-2	Brinell hardness test for metallic materials(only for ISO 6506-1)	Steel	HBW 10/3000	Aug.2022	450+ carriage	<input type="checkbox"/>
NIL PT-3428	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Steel	HRA	Apr.2022	450+ carriage	<input type="checkbox"/>
NILPT-3429-1	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Steel	HRB	Apr.2022	450+ carriage	<input type="checkbox"/>
NILPT-3429-2	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Steel	HRB	Aug.2022	450+ carriage	<input type="checkbox"/>



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NILPT-3430-1	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Steel	HRC	Apr.2022	450+ carriage	<input type="checkbox"/>
NILPT-3430-2	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Steel	HRC	Jun.2022	450+ carriage	<input type="checkbox"/>
NILPT-3430-3	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Steel	HRC	Sept.2022	450+ carriage	<input type="checkbox"/>
NIL PT-3431	Vickers hardness test for metallic materials (only for ISO 6507-1)	Steel	HV0.2	Sept.2022	500+ carriage	<input type="checkbox"/>
NIL PT-3432	Vickers hardness test for metallic materials (only for ISO 6507-1)	Steel	HV5	Aug.2022	450+ carriage	<input type="checkbox"/>
NILPT-3433-1	Vickers hardness test for metallic materials (only for ISO 6507-1)	Steel	HV10	Apr.2022	450+ carriage	<input type="checkbox"/>
NILPT-3433-2	Vickers hardness test for metallic materials (only for ISO 6507-1)	Steel	HV10	Aug.2022	450+ carriage	<input type="checkbox"/>
NIL PT-3435-1	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)	Steel	$R_m, R_{eL}, A, Z, R_{p0.2}$	Mar.2022	600+ carriage	<input type="checkbox"/>
NIL PT-3435-2	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)	Steel	$R_m, R_{eL}, A, Z, R_{p0.2}$	Sept.2022	600+ carriage	<input type="checkbox"/>
NIL PT-3436	Room temperature tensile test for metallic materials (Recommended testing machine: 20kN~50kN. Diameter of sample: Φ5mm, M12 normal screw threaded both ends. Matched chucking heads are required. only for ISO 6892-1)	Steel	$R_m, R_{eL}, A, Z, R_{p0.2}$	May.2022	600+ carriage	<input type="checkbox"/>



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NIL PT-3437	Room temperature tensile test for metallic materials (Recommended testing machine: 50kN~100kN. Diameter of sample: Φ 8mm, M14 normal screw threaded both ends. Matched chucking heads are required. only for ISO 6892-1)	Steel	$R_m, R_{eL}, A, Z, R_{p0.2}$	Jun.2022	600+ carriage	<input type="checkbox"/>
NIL PT-3438	Room temperature tensile test for metallic materials (Recommended testing machine: 300kN~1000kN. Diameter of sample: Φ 20mm, Diameter of terminal end: Φ 27mm. only for ISO 6892-1)	Steel	$R_m, R_{eL}, A, Z, R_{p0.2}$	Aug.2022	600+ carriage	<input type="checkbox"/>
NILPT-3127-1	Room temperature tensile test for hot rolled ribbed steel bars (Recommended testing machine: 300kN~1000kN. only for ISO 6892-1)	Hot rolled ribbed steel bars	$R_m, R_{eL}, A,$	Mar.2022	550+ carriage	<input type="checkbox"/>
NILPT-3127-2	Room temperature tensile test for hot rolled ribbed steel bars (Recommended testing machine: 300kN~1000kN. Only for ISO 6892-1)	Hot rolled ribbed steel bars	$R_m, R_{eL}, A,$	Sept.2022	550+ carriage	<input type="checkbox"/>
NIL PT-3439	Room temperature tensile test for cold-rolled plate of metallic materials (Recommended testing machine: 20kN~50kN. only for ISO 6892-1)	Steel-cold rolled plate	$R_m, A, R_{p0.2}$	May.2022	550+ carriage	<input type="checkbox"/>
NIL PT-3440	Room temperature tensile test for hot-rolled plate of metallic materials (Recommended testing machine: 100kN~300kN. only for ISO 6892-1)	Steel-hot rolled plate	$R_m, R_{eL}, A, R_{p0.2}$	Apr.2022	550+ carriage	<input type="checkbox"/>
NIL PT-3441	Room temperature tensile test for hot-rolled plate of metallic materials (Recommended testing machine: 300kN~600kN. only for ISO 6892-1)	Steel-hot rolled plate	$R_m, R_{eL}, A, R_{p0.2}$	Aug.2022	550+ carriage	<input type="checkbox"/>
NIL PT-3442	Elevated temperature tensile test for metallic materials (Recommended testing machine:	Steel	$R_m, A, Z, R_{p0.2}$	Jun.2022	600+ carriage	<input type="checkbox"/>



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	50kN~100kN.Diameter of sample: Φ5mm, M10 or M12 normal screw threaded both ends. Matched chucking heads are required. Temperature: ≥300℃. only for ISO 6892-2)					
NIL PT-3444	Room temperature tensile test for aluminum alloy sheet (Recommended testing machine: 20kN~50kN. only for ISO 6892-1)	Aluminum alloy	$R_m, A, R_{p0.2}$	Jul.2022	550+ carriage	<input type="checkbox"/>
NIL PT-3445	Room temperature tensile test for aluminum alloy steel bars (Recommended testing machine: 20kN~50kN. only for ISO 6892-1)	Aluminum alloy bars	$R_m, A, Z, R_{p0.2}$	Jul.2022	550+ carriage	<input type="checkbox"/>
NIL PT-3447	Charpy impact test for metallic materials (Striker R=2mm.U notch. Recommended testing machine: ≥150J. only for ISO 148-1)	Steel	Impact Absorbed Energy KU_2	Mar.2022	500+ carriage	<input type="checkbox"/>
NIL PT-3448	Charpy impact test for metallic materials (Striker R=2mm. U notch. Recommended testing machine: ≥300J. only for ISO 148-1)	Steel	Impact Absorbed Energy KU_2	Sept.2022	500+ carriage	<input type="checkbox"/>
NIL PT-3449	Low-temperature Charpy impact test for metallic materials (Striker R=2mm.U notch. Recommended testing machine: ≥150J. only for ISO 148-1)	Steel	Impact Absorbed Energy KU_2	Aug.2022	500+ carriage	<input type="checkbox"/>
NIL PT-3450	Charpy impact test for metallic materials (Striker R=2mm. V notch. Recommended testing machine: ≥150J. only for ISO 148-1)	Steel	Impact Absorbed Energy KV_2	Apr. 2022	500+ carriage	<input type="checkbox"/>
NIL PT-3451	Charpy impact test for metallic materials (Striker R=2mm. V notch. Recommended testing machine: ≥300J. only for ISO 148-1)	Steel	Impact Absorbed Energy KV_2	Sept. 2022	500+ carriage	<input type="checkbox"/>
Mechanical Properties for Materials (Special for ASTM standard)						
Serial No	Title	Test object	Test property	Registration deadline	Fees (USD)	Select



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NILPT-3462	Room temperature tensile test for metallic materials (Recommended testing machine: 100kN~300kN. Diameter of sample: Φ12.5mm. only for ASTM E8/E8M)	Steel	tensile strength , lower yield strength, elongation after fracture, reduction of area	Aug. 2022	650+ carriage	<input type="checkbox"/>
NILPT-3463	Elevated temperature tensile test for metallic material (Recommended testing machine: 50kN~100kN. Diameter of sample: Φ6mm, M12 normal screw threaded both ends. Matched chucking heads are required. Temperature: ≥300℃. only for ASTM E21)	Steel	tensile strength , yield strength (offset =0.2%), elongation after fracture, reduction of area	Aug. 2022	650+ carriage	<input type="checkbox"/>
NILPT-3464	Charpy impact test for metallic materials (Striker R=8mm. V notch. Recommended testing machine: ≥150J. only for ASTM E23)	Steel	Impact Absorbed Energy	Aug. 2022	550+ carriage	<input type="checkbox"/>
NIL PT-3465	Brinell hardness test for metallic materials(for ASTM E10)	Steel	HBW 10/3000	Sept.2022	550+ carriage	<input type="checkbox"/>
NIL PT-3466	Rockwell hardness test for metallic materials(for ASTM E18)	Steel	HRC	Sept.2022	550+ carriage	<input type="checkbox"/>
NIL PT-3467	Vickers hardness test for metallic materials(for ASTM E92)	Steel	HV10	Sept.2022	600+ carriage	<input type="checkbox"/>
Microstructure of metal Materials (Special for ASTM standard)						
Serial No	Title	Test object	Test property	Registration deadline	Fees (USD)	Select
NILPT-3468	Determination of average grain size in metallic materials (Recommendation for Intercept Procedure. for ASTM E112)	Steel(Material object)	Grain size number	Aug. 2022	450+ carriage	<input type="checkbox"/>
Non-destructive Test for Metallic Material						
Serial No	Title	Test object	Test property	Registration deadline	Fees (USD)	Select
NILPT-3477	Non-destructive tesitng of welds (Ultrasonic testing)	Steel Plate	Location of indication, length of	Jul. 2022	500+ carriage	<input type="checkbox"/>



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			indication			
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***Note:** For NIL PT-3032-1, NIL PT-3032-2, NIL PT-3032-3, NIL PT-3033-1, NIL PT-3033-2, NIL PT-3037-1, NIL PT-3037-2, NIL PT-3039, NIL PT-3054, NIL PT-3055-1, NIL PT-3055-2, NIL PT-3058, two kinds of samples (discs and chips) are available for different methods(chips sample is available for ICP-AES or Gravimetric Method etc., discs sample is available for XRF or spark-OES method etc.) .

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 1 and send the order to nil@analysis.org.cn

Information of Laboratory

Name of Laboratory:

Postal Address & Zip Code:

Contact Person: Country:

E-mail:

Tel:Fax:

China NIL Research Center for Proficiency Testing

Address: No 13GaoliangqiaoXieJie, Haidian District, Beijing 100081, P. R. China

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

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

E-mail: 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.