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China NIL Research Center for Proficiency Testing

China NIL International Proficiency Testing Schemes (2024)

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 17043:2023 “Conformity assessment — General requirements for the competence of proficiency testing providers”. The international proficiency testing schemes for 2024 are listed in the following Table 1.

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Table 1 NIL International Proficiency Testing Schemes for 2024

Chemical Analysis for Metal and Alloy						
Serial No.	Title	Test Object	Test Property	Expected Delivery Time	Fees (USD)	Select
NILPT-4135-1	Determination of C, Si, Mn, P and S in medium and low alloy steel	Medium and low alloy steel	C, Si, Mn, P, S	Mar., 2024	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-4135-2	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., 2024	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-4135-3	Determination of C, Si, Mn, P and S in medium and low alloy steel	Medium and low alloy steel	C, Si, Mn, P, S	Oct., 2024	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-4136-1	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., 2024	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-4136-2	Determination of Cr, Ni, Cu, Mo and Al in medium and low alloy steel	Medium and low alloy steel	Cr, Ni, Cu, Mo, Al	Aug., 2024	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-4137-1	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., 2024	300+ carriage	<input type="checkbox"/> Chips
NILPT-4137-2	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	Aug., 2024	300+ carriage	<input type="checkbox"/> Chips
NILPT-4138-1	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., 2024	350+ carriage	<input type="checkbox"/> Discs
NILPT-4138-2	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	Aug., 2024	350+ carriage	<input type="checkbox"/> Discs
NILPT-4139-1	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., 2024	350+ carriage	<input type="checkbox"/> Discs
NILPT-4139-2	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	Aug., 2024	350+ carriage	<input type="checkbox"/> Discs



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Serial No.	Title	Test Object	Test Property	Expected Delivery Time	Fees (USD)	Select
NIL PT-4142-1	Determination of Si, Mn, P, Cr, Ni and Ti in stainless steel	Stainless steel	Si, Mn, P, Cr, Ni, Ti	Apr., 2024	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-4142-2	Determination of Si, Mn, P, Cr, Ni and Ti in stainless steel	Stainless steel	Si, Mn, P, Cr, Ni, Ti	Aug., 2024	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-4143-1	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., 2024	350+ carriage	<input type="checkbox"/> Discs
NIL PT-4143-2	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., 2024	350+ carriage	<input type="checkbox"/> Discs
NIL PT-4144	Determination of C, Si, Mn, P, S and Cr in bearing steel	Bearing steel	C, Si, Mn, P, S, Cr	Jul., 2024	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-4145	Determination of C, Si, P, S, Mo in ferromolybdenum	Ferromolybdenum	C, Si, P, S, Mo	Sep., 2024	350+ carriage	<input type="checkbox"/> Chips
NIL PT-4146-1	Determination of C and S content in steel	Steel	C, S	Mar., 2024	280+ carriage	<input type="checkbox"/> Chips
NIL PT-4146-2	Determination of C and S content in steel	Steel	C, S	Jun., 2024	280 + carriage	<input type="checkbox"/> Chips
NIL PT-4146-3	Determination of C and S content in steel	Steel	C, S	Sep, 2024	280+ carriage	<input type="checkbox"/> Chips
NIL PT-4147-1	Determination of O and N content in steel	Steel	O, N	Jun., 2024	280 + carriage	<input type="checkbox"/> Chips
NIL PT-4147-2	Determination of O and N content in steel	Steel	O, N	Oct., 2024	280+ carriage	<input type="checkbox"/> Chips
NIL PT-4148	Determination of H in steel	Steel	H	Oct., 2024	300 + carriage	<input type="checkbox"/> Chips
NIL PT-4149	Determination of Mo, Al, Ti, Nb in high-temperature alloy	High-Temperature Alloy	Mo, Al, Ti, Nb	Oct., 2024	400 + carriage	<input type="checkbox"/> Chips
NIL PT-4153	Determination of Si, Mn, P, Al and Ca in ferrosilicon	Ferrosilicon	Si, Mn, P, Al, Ca	Sep., 2024	300+ carriage	<input type="checkbox"/> Chips
NIL PT-4154	Determination of C, Si, Mn and P in ferromanganese	Ferromanganese	C, Si, Mn, P	Sep., 2024	300 + carriage	<input type="checkbox"/> Chips
NIL PT-4155	Determination of C, Si, Mn, P, S, Ni and Cr in ferronickel	Ferronickel	C, Si, Mn, P, S, Ni, Cr	Oct., 2024	300 + carriage	<input type="checkbox"/> Chips
NIL PT-4163	Determination of C, Si, Mn, P and Cr in low-carbon ferrochromium	Low-carbon ferrochromium	C, Si, Mn, P, Cr	Sep., 2024	300 + carriage	<input type="checkbox"/> Chips



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NIL PT-4164	Determination of Si, Mn, P and S in silicon manganese alloy	Silicon manganese alloy	Si, Mn, P, S	Oct., 2024	300+ carriage	<input type="checkbox"/> Chips
NIL PT-4165	Determination of V, C, Si, Mn, P, S and Al in ferrovanadium	Ferrovanadium	V, C, Si, Mn, P, S, Al	Oct., 2024	400+ carriage	<input type="checkbox"/> Chips
NIL PT-4167	Determination of Si, Fe, Cu, Mg and Zn in pure aluminum	Pure aluminum	Si, Fe, Cu, Mg, Zn	Sep., 2024	320 + carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-4168-1	Determination of Si, Fe, Cu, Mg and Mn in aluminum alloy	Aluminum alloy	Si, Fe, Cu, Mg, Mn	May., 2024	320+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-4168-2	Determination of Si, Fe, Cu, Mg and Mn in aluminum alloy	Aluminum alloy	Si, Fe, Cu, Mg, Mn	Aug., 2024	320 + carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-4169	Determination of Si, Fe, Cu, Cr, Ti and Zn in aluminum alloy by spark atomic emission spectrometry	Aluminum alloy	Si, Fe, Cu, Cr, Ti, Zn	Sep., 2024	320 + carriage	<input type="checkbox"/> Discs
NIL PT-4170	Determination of Cu, Mg, Fe and Al in zinc alloy	Zinc alloy	Cu, Mg, Fe, Al	Oct., 2024	320 + carriage	<input type="checkbox"/> Chips
NIL PT-4172	Determination of Fe, Ni, Pb and Cu in copper alloy	Copper alloy	Fe, Ni, Pb, Cu	Oct., 2024	320 + carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NIL PT-4177	Determination of Fe, Al, V and Si in titanium alloy	Titanium alloy	Fe, Al, V, Si	Aug., 2024	500 + carriage	<input type="checkbox"/> Chips
NIL PT-4178	Determination of O, N, and H in titanium alloy	Titanium alloy	O, N, H	Oct., 2024	500 + carriage	<input type="checkbox"/> Grain
NIL PT-4179	Determination of Cr, Ni, Cu and Mo in titanium alloy	Titanium alloy	Cr, Ni, Cu, Mo	Aug., 2024	500+ carriage	<input type="checkbox"/> Chips
NIL PT-4180	Determination of Sn, Mn, Y and Zr in titanium alloy	Titanium alloy	Sn, Mn, Y, Zr	Aug., 2024	500 + carriage	<input type="checkbox"/> Chips
Mineral and Metallurgical Material						
Serial No.	Title	Test Object	Test Property	Expected Delivery Time	Fees (USD)	Select
NILPT-4190-1	Determination of TFe, SiO ₂ , P and S in iron ore	Iron ore	TFe, SiO ₂ , P, S	Apr., 2024	300 + carriage	<input type="checkbox"/>
NILPT-4190-2	Determination of TFe, SiO ₂ , P and S in iron ore	Iron ore	TFe, SiO ₂ , P, S	Aug., 2024	300 + carriage	<input type="checkbox"/>
NIL PT-4191	Determination of CaO, MgO and Al ₂ O ₃ in iron ore	Iron ore	CaO, MgO, Al ₂ O ₃	Jun., 2024	300 + carriage	<input type="checkbox"/>
NIL PT-4192	Determination of TFe and FeO in iron ore	Iron ore	TFe, FeO	Aug., 2024	300 + carriage	<input type="checkbox"/>



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NIL PT-4193	Determination of K and Na in iron ore	Iron ore	K, Na	Aug., 2024	300 + carriage	<input type="checkbox"/>
NIL PT-4194	Determination of Ca, Si, Mn, Al, P and Mg in iron ore by X-ray fluorescence spectrometry	Iron ore	Ca, Si, Mn, Al, P, Mg	Aug., 2024	450 + carriage	<input type="checkbox"/>
NIL PT-4196	Determination of Mn and Ti in iron ore	Iron ore	Mn, Ti	Sep., 2024	300 + carriage	<input type="checkbox"/>
NIL PT-4197	Determination of TMn, TFe, SiO ₂ and Al ₂ O ₃ in manganese ore	Manganese ore	TMn, TFe, SiO ₂ , Al ₂ O ₃	Aug., 2024	300 + carriage	<input type="checkbox"/>
NIL PT-4198	Determination of TiO ₂ and Ni in manganese ore	Manganese ore	TiO ₂ , Ni	Oct., 2024	300 + carriage	<input type="checkbox"/>
NIL PT-4201	Determination of CaF ₂ , SiO ₂ and TFe in fluorite	Fluorite	CaF ₂ , SiO ₂ , TFe	Aug., 2024	300 + carriage	<input type="checkbox"/>
NILPT-4202-1	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., 2024	300 + carriage	<input type="checkbox"/>
NILPT-4202-2	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	Aug., 2024	300 + carriage	<input type="checkbox"/>
NIL PT-4204	Determination of Ni, SiO ₂ , TFe and MgO in nickel ore	Nickel ore	Ni, SiO ₂ , TFe, MgO	Aug., 2024	300 + carriage	<input type="checkbox"/>
NIL PT-4205	Determination of Zn, Pb and Cu in zinc ore	Zinc ore	Zn, Pb, Cu	Aug., 2024	300 + carriage	<input type="checkbox"/>
NIL PT-4207	Determination of Zn, Cu, Pb and Cd in zinc concentrates	Zinc concentrates	Zn, Cu, Pb, Cd	Jun., 2024	300 + carriage	<input type="checkbox"/>
NIL PT-4208	Determination of Cu, S, Au and Ag in copper concentrates	Copper concentrates	Cu, S, Au, Ag	Jun., 2024	320 + carriage	<input type="checkbox"/>
NIL PT-4210	Determination of Pb, Cu, Zn and As in lead concentrates	Lead concentrates	Pb, Cu, Zn, As	Jun., 2024	300 + carriage	<input type="checkbox"/>
NIL PT-4211	Determination of Cu, Pb, Zn and Fe	Polymetallic ore	Cu, Pb,	Jun., 2024	300 +	<input type="checkbox"/>



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	in polymetallic ore		Zn, Fe		carriage	
NIL PT-4213	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	Jun., 2024	300 + carriage	<input type="checkbox"/>
NIL PT-4215	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	Jun., 2024	300 + carriage	<input type="checkbox"/>
NIL PT-4216	Determination of Au and Ag in ore	Ore	Au, Ag	Jun., 2024	350 + carriage	<input type="checkbox"/>
NIL PT-4218	Determination of Fe, Al and Ca in metallurgical silicon	Metallurgical silicon	Fe, Al, Ca	Jun., 2024	300 + carriage	<input type="checkbox"/>
NIL PT-4220	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	Jul., 2024	300 + carriage	<input type="checkbox"/>
Coal and Coke						
Serial No.	Title	Test Object	Test Property	Expected Delivery Time	Fees (USD)	Select
NILPT-4223-1	Proximate analysis of coke	Coke	Sulphur, ash, volatile matter	Apr., 2024	300 + carriage	<input type="checkbox"/>
NILPT-4223-2	Proximate analysis of coke	Coke	Sulphur, ash, volatile matter	Aug., 2024	300 + carriage	<input type="checkbox"/>
NILPT-4224-1	Proximate analysis of coal	Coal	Sulphur, ash, volatile matter	Apr., 2024	300 + carriage	<input type="checkbox"/>
NILPT-4224-2	Proximate analysis of coal	Coal	Sulphur, ash, volatile matter	Aug., 2024	300 + carriage	<input type="checkbox"/>
NIL PT-4225	Determination of calorific value of coal	Coal	Calorific value	Jun., 2024	300 + carriage	<input type="checkbox"/>



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Cement						
Serial No.	Title	Test Object	Test Property	Expected Delivery Time	Fees (USD)	Select
NIL PT-4238	Determination of loss on ignition, magnesium oxide, Calcium oxide and sulfur trioxide in cement	Cement	Loss on ignition, MgO, CaO,SO ₃	Aug., 2024	450+ carriage	<input type="checkbox"/>
NIL PT-4239	Determination of chloride ions in cement	Cement	Chloride ions	Aug., 2024	450+ carriage	<input type="checkbox"/>
Soil						
Serial No.	Title	Test Object	Test Property	Expected Delivery Time	Fees (USD)	Select
NILPT-4258-1	Determination of Pb and Cd in soil	Soil	Pb ,Cd	May., 2024	350 + carriage	<input type="checkbox"/>
NILPT-4258-2	Determination of Pb and Cd in soil	Soil	Pb ,Cd	Sep., 2024	350 + carriage	<input type="checkbox"/>
NILPT-4259-1	Determination of Ni, Cu and Zn in soil	Soil	Ni, Cu, Zn	May., 2024	350 + carriage	<input type="checkbox"/>
NILPT-4259-2	Determination of Ni, Cu and Zn in soil	Soil	Ni, Cu, Zn	Sep., 2024	350 + carriage	<input type="checkbox"/>
NILPT-4260-1	Determination of total Hg and total As in soil	Soil	Total Hg, Total As	May., 2024	350 + carriage	<input type="checkbox"/>
NILPT-4260-2	Determination of total Hg and total As in soil	Soil	Total Hg ,Total As	Sep., 2024	350 + carriage	<input type="checkbox"/>
NILPT-4261-1	Determination of total Cr in soil	Soil	Total Cr	May., 2024	350 + carriage	<input type="checkbox"/>
NILPT-4261-2	Determination of total Cr in soil	Soil	Total Cr	Sep., 2024	350 + carriage	<input type="checkbox"/>
NIL PT-4272	Determination of total P in soil	Soil	Total P	Sep., 2024	350 + carriage	<input type="checkbox"/>
NILPT-4281-1	Determination of pH in soil	Soil	pH at 25°C	May., 2024	350 + carriage	<input type="checkbox"/>
NILPT-4281-2	Determination of pH in soil	Soil	pH at 25°C	Sep., 2024	350 + carriage	<input type="checkbox"/>



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RoHS						
Serial No.	Title	Test Object	Test Property	Expected Delivery Time	Fees (USD)	Select
NIL PT-4537	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	Jul., 2024	320 + carriage	<input type="checkbox"/>
NIL PT-4538	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	Jul., 2024	320 + carriage	<input type="checkbox"/>
NIL PT-4539	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	Jul., 2024	320 + carriage	<input type="checkbox"/>
NIL PT-4540	Restricted substances in electronic and electrical products – Determination of noxious substance content in ABS	Electronic and electrical products – ABS	Pb, Cd, Hg, Br	Sep., 2024	400 + carriage	<input type="checkbox"/>
NIL PT-4542	Restricted substances in electronic and electrical products – Determination of flame retardant content in plastic	Electronic and electrical products – plastic	BDE-209	Sep., 2024	400 + carriage	<input type="checkbox"/>
Plastic						
Serial No.	Title	Test Object	Test Property	Expected Delivery Time	Fees (USD)	Select
NIL PT-4547	Determination of phthalate plasticizers in plastic toy	Plastic toy materials	DBP, DEHP, BBP, DINP, DIDP, DNOP	Sep., 2024	450 + carriage	<input type="checkbox"/>
NIL PT-4548	Determination of halogen in plastic	Plastic	Cl, Br	Sep., 2024	500 + carriage	<input type="checkbox"/>
NIL PT-4549	Determination of the melt mass-flow rate (MFR) of thermoplastics(ISO 1133-1)	Plastics	MFR	Jul., 2024	450 + carriage	<input type="checkbox"/>



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NIL PT-4550	Determination of density of plastic (ISO 1183-1, method A-Immersion method)	Plastics	Density	Jul., 2024	450+ carriage	<input type="checkbox"/>
NIL PT-4555	Determination of vicat softening temperature of plastics (ISO 306)	Plastics	vicat softening temperature	Jul., 2024	550+ carriage	<input type="checkbox"/>
NIL PT-4557	Determination of tensile properties of plastic (ISO 527-1/-2)	Plastics	stress at yield, strength, stress at X% strain, strain at yield	Aug., 2024	550+ carriage	<input type="checkbox"/>
NIL PT-4558	Determination of charpy impact properties of plastic (ISO 179-1)	Plastics	Charpy notched impact strength	Aug., 2024	550+ carriage	<input type="checkbox"/>

Microstructure of metal Materials(Special for ISO Standard)

Serial No.	Title	Test Object	Test Property	Expected Delivery Time	Fees (USD)	Select
NIL PT-4586	Determination of average grain size in metallic materials (Only for Intercept Procedure, ASTM E112 Please register NIL PT-4669)	Steel (Photo)	Grain size number	May., 2024	300+ carriage	<input type="checkbox"/>
NIL PT-4587	Determination of average grain size in metallic materials (Only for Intercept Procedure, ASTM E112 Please register NIL PT-4669)	Steel (Material object)	Grain size number	Sep., 2024	450+ carriage	<input type="checkbox"/>
NIL PT-4589	Determination of average grain size in aluminium alloy (Only for Intercept Procedure)	Aluminium alloy (Photo)	Grain size number	Aug., 2024	300+ carriage	<input type="checkbox"/>
NIL PT-4592	Determination of depth of decarburization of steels (Only for ISO 3887)	Steel (Material object)	Depth of decarburization	Jul., 2024	450+ carriage	<input type="checkbox"/>
NILPT-4605-1	Metal neutral salt spray tests (Only for ISO 9227)	Steel	Weight loss	May., 2024	500+ carriage	<input type="checkbox"/>
NILPT-4605-2	Metal neutral salt spray tests (Only for ISO 9227)	Steel	Weight loss	Sep., 2024	500+ carriage	<input type="checkbox"/>



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Mechanical Properties for Metal Materials (Special for ISO Standard)						
Serial No.	Title	Test Object	Test Property	Expected Delivery Time	Fees (USD)	Select
NILPT-4618-1	Brinell hardness test for metallic materials (Only for ISO 6506-1)	Steel	HBW 2.5/187.5	May., 2024	450+ carriage	<input type="checkbox"/>
NILPT-4618-2	Brinell hardness test for metallic materials (Only for ISO 6506-1)	Steel	HBW 2.5/187.5	Oct., 2024	450+ carriage	<input type="checkbox"/>
NILPT-4619-1	Brinell hardness test for metallic materials (Only for ISO 6506-1)	Steel	HBW 5/750	May., 2024	450+ carriage	<input type="checkbox"/>
NILPT-4619-2	Brinell hardness test for metallic materials (Only for ISO 6506-1)	Steel	HBW 5/750	Sep., 2024	450+ carriage	<input type="checkbox"/>
NILPT-4620-1	Brinell hardness test for metallic materials (Only for ISO 6506-1)	Steel	HBW 10/3000	Apr., 2024	450+ carriage	<input type="checkbox"/>
NILPT-4620-2	Brinell hardness test for metallic materials (Only for ISO 6506-1)	Steel	HBW 10/3000	Sep., 2024	450+ carriage	<input type="checkbox"/>
NIL PT-4621	Rockwell hardness test for metallic materials (Only for ISO 6508-1)	Steel	HRA	Jun., 2024	450+ carriage	<input type="checkbox"/>
NILPT-4622-1	Rockwell hardness test for metallic materials (Only for ISO 6508-1)	Steel	HRB	May.,2024	450+ carriage	<input type="checkbox"/>
NILPT-4622-2	Rockwell hardness test for metallic materials (Only for ISO 6508-1)	Steel	HRB	Sep.,2024	450+ carriage	<input type="checkbox"/>
NILPT-4623-1	Rockwell hardness test for metallic materials (Only for ISO 6508-1)	Steel	HRC	Apr., 2024	450+ carriage	<input type="checkbox"/>
NILPT-4623-2	Rockwell hardness test for metallic materials (Only for ISO 6508-1)	Steel	HRC	Jul., 2024	450+ carriage	<input type="checkbox"/>
NILPT-4623-3	Rockwell hardness test for metallic materials (Only for ISO 6508-1)	Steel	HRC	Oct., 2024	450+ carriage	<input type="checkbox"/>
NIL PT-4624	Vickers hardness test for metallic materials (Only for ISO 6507-1)	Steel	HV0.2	Oct., 2024	500+ carriage	<input type="checkbox"/>
NIL PT-4625	Vickers hardness test for metallic materials (Only for ISO 6507-1)	Steel	HV5	Sep., 2024	450+ carriage	<input type="checkbox"/>
NILPT-4626-1	Vickers hardness test for metallic	Steel	HV10	Apr., 2024	450+	<input type="checkbox"/>



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	materials (Only for ISO 6507-1)				carriage	
NILPT-4626-2	Vickers hardness test for metallic materials (Only for ISO 6507-1)	Steel	HV10	Sep., 2024	450+ carriage	□
NIL PT-4627	Vickers hardness test for metallic materials (Only for ISO 6507-1)	Steel	HV30	Sep., 2024	450+ carriage	□
NILPT-4629-1	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	$R_m, R_{eL},$ $A, Z, R_{p0.2}$	Apr., 2024	600+ carriage	□
NILPT-4629-2	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	$R_m, R_{eL},$ $A, Z,$ $R_{eH}, R_{p0.2}$	Oct., 2024	600+ carriage	□
NIL PT-4630	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	$R_m, R_{eL},$ $A, Z, R_{p0.2}$	Jun., 2024	600+ carriage	□
NIL PT-4631	Room temperature tensile test for metallic materials (Recommended testing machine: 50kN~100kN. Diameter of sample: Φ8mm, M14 normal screw threaded both ends. Matched chucking heads are required. Only for ISO 6892-1)	Steel	$R_m, R_{eL},$ $A, Z, R_{p0.2}$	Jul., 2024	600+ carriage	□
NIL PT-4632	Room temperature tensile test for metallic materials (Recommended testing machine: 300kN~1000kN. Diameter of sample: Φ20mm, Diameter of terminal end: Φ27mm. Only for	Steel	$R_m, R_{eL},$ $A, Z, R_{p0.2}$	Sep., 2024	600+ carriage	□



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	ISO 6892-1)					
NILPT-4252-1	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	May., 2024	500+ carriage	<input type="checkbox"/>
NILPT-4252-2	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	Oct., 2024	500+ carriage	<input type="checkbox"/>
NILPT-4254	Room temperature tensile test for hot rolled ribbed steel bars (Recommended testing machine: 300kN~1000kN. Only for ISO 15630-1)	Hot rolled ribbed steel bars	R_m, R_{eL}, A, A_{gt}	Aug., 2024	500+ carriage	<input type="checkbox"/>
NIL PT-4634	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	$R_m, A, R_{p0.2}$	Jun., 2024	550+ carriage	<input type="checkbox"/>
NILPT-4635-1	Room temperature tensile test for hot-rolled plate of metallic materials (Recommended testing machine: 100kN~300kN. Sample thickness 3~6mm. Only for ISO 6892-1)	Steel-hot rolled plate	$R_m, R_{eL}, A, R_{p0.2}$	Apr., 2024	550+ carriage	<input type="checkbox"/>
NILPT-4635-2	Room temperature tensile test for hot-rolled plate of metallic materials (Recommended testing machine: 100kN~300kN. Sample thickness 3~6mm. Only for ISO 6892-1)	Steel-hot rolled plate	$R_m, R_{eL}, A, R_{p0.2}$	Oct., 2024	550+ carriage	<input type="checkbox"/>
NIL PT-4636	Room temperature tensile test for hot-rolled plate of metallic materials (Recommended testing machine: 300kN~1000kN. Sample thickness >10mm. Only for ISO 6892-1)	Steel-hot rolled plate	$R_m, R_{eL}, A, R_{p0.2}$	Aug., 2024	550+ carriage	<input type="checkbox"/>
NIL PT-4640	Room temperature tensile test for aluminum alloy sheet	Aluminum alloy sheet	$R_m, R_{p0.2}, A$	Aug., 2024	550+ carriage	<input type="checkbox"/>



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	(Recommended testing machine: 50kN~100kN. Sample thickness 2~4mm. Only for ISO 6892-1)					
NIL PT-4641	Room temperature tensile test for aluminum alloy bars (Recommended testing machine: 50kN~100kN. Diameter of sample: Φ 10mm, M16 normal screw threaded both ends. Matched chucking heads are required. Only for ISO 6892-1)	Aluminum alloy bars	$R_m, A, Z, R_{p0.2}$	Sep., 2024	550+ carriage	<input type="checkbox"/>
NIL PT-4642	Charpy impact test for metallic materials (Striker R=2mm.U notch. Recommended testing machine: \geq 150J. Only for ISO 148-1)	Steel	Impact Absorbed Energy KU_2	Apr., 2024	600+ carriage	<input type="checkbox"/>
NIL PT-4643	Charpy impact test for metallic materials (Striker R=2mm.U notch. Recommended testing machine: \geq 300J. Only for ISO 148-1)	Steel	Impact Absorbed Energy KU_2	Sep., 2024	600+ carriage	<input type="checkbox"/>
NIL PT-4645	Charpy impact test for metallic materials (Striker R=2mm.V notch. Recommended testing machine: \geq 150J. Only for ISO 148-1)	Steel	Impact Absorbed Energy KV_2	May., 2024	600+ carriage	<input type="checkbox"/>
NIL PT-4646	Charpy impact test for metallic materials (Striker R=2mm.V notch. Recommended testing machine: \geq 300J. Only for ISO 148-1)	Steel	Impact Absorbed Energy KV_2	Oct., 2024	600+ carriage	<input type="checkbox"/>
NIL PT-4644	Low-temperature Charpy impact test for metallic materials (Striker R=2mm. Recommended testing machine: \geq 150J. Only for ISO 148-1)	Steel	Impact Absorbed Energy	Sep., 2024	600+ carriage	<input type="checkbox"/>
NIL PT-4647	Elevated temperature tensile test for metallic materials (Recommended testing machine: 50kN~100kN. Diameter of sample: Φ 5mm, M10 or M12 normal screw threaded both ends. Matched chucking heads are required. Temperature: \geq 300°C. Only for ISO 6892-2)	Steel	$R_m, R_{p0.2}, A, Z$	Aug., 2024	600+ carriage	<input type="checkbox"/>



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Mechanical Properties for Materials (Special for ASTM Standard)						
Serial No.	Title	Test Object	Test Property	Expected Delivery Time	Fees (USD)	Select
NIL PT-4660	Room temperature tensile test for metallic materials (Recommended testing machine: 100kN~300kN. Diameter of sample: Φ 12.5mm. Only for ASTM E8/E8M)	Steel	tensile strength , lower yield strength, elongation after fracture, reduction of area	Sep., 2024	600+ carriage	<input type="checkbox"/>
NIL PT-4661	Room temperature tensile test for aluminum alloy sheet (Recommended testing machine: 50kN~100kN. Only for ASTM B557)	Aluminum alloy	tensile strength , yield strength (offset =0.2%), elongation after fracture	Sep., 2024	600+ carriage	<input type="checkbox"/>
NIL PT-4662	Elevated temperature tensile test for metallic material (Recommended testing machine: 50kN~100kN. Diameter of sample: Φ 6mm, M12 normal screw threaded both ends. Matched chucking heads are required. Temperature: \geq 300 $^{\circ}$ C. Only for ASTM E21)	Steel	tensile strength , yield strength (offset =0.2%), elongation after fracture, reduction of area	Sep., 2024	650+ carriage	<input type="checkbox"/>
NILPT-4663	Charpy impact test for metallic materials (Striker R=8mm. V notch. Recommended testing machine: \geq 150J. Only for ASTM E23)	Steel	Impact Absorbed Energy	Sep., 2024	600+ carriage	<input type="checkbox"/>
NIL PT-4664	Brinell hardness test for metallic materials (Only for ASTM E10)	Steel	HBW 10/3000	Oct., 2024	550+ carriage	<input type="checkbox"/>
NIL PT-4665	Rockwell hardness test for metallic	Steel	HRC	Oct., 2024	550+	<input type="checkbox"/>



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	materials (Only for ASTM E18)				carriage	
NIL PT-4666	Vickers hardness test for metallic materials (Only for ASTM E92)	Steel	HV10	Oct., 2024	600+ carriage	<input type="checkbox"/>
NIL PT-4667	Vickers hardness test for metallic materials (Only for ASTM E384)	Steel	HV0.5	Oct., 2024	600+ carriage	<input type="checkbox"/>
NIL PT-4668	High Cycle Fatigue Test (Only for ASTM E466)	Metallic materials	Life duration (Number of cycles)	Sep., 2024	1000+ carriage	<input type="checkbox"/>
Microstructure of Metal Materials (Special for ASTM Standard)						
Serial No.	Title	Test Object	Test Property	Expected Delivery Time	Fees (USD)	Select
NIL PT-4669	Determination of average grain size in metallic materials (Recommendation for Intercept Procedure. Only for ASTM E112)	Steel (Material object)	Grain size number	Sep., 2024	450+ carriage	<input type="checkbox"/>
NIL PT-4670	Determination of content of nonmetallic inclusions (Only for ASTM E45)	Steel (Photo)	Inclusion Rate	Aug., 2024	300+ carriage	<input type="checkbox"/>
NIL PT-4671	Metal neutral salt spray tests (Only for ASTM B117)	Steel	Weight loss	Aug., 2024	500+ carriage	<input type="checkbox"/>
NIL PT-4730	Determination of depth of decarburization of steels (Only for ASTM E1077)	Steel (Material object)	Depth of decarburization	Jul., 2024	450+ carriage	<input type="checkbox"/>
Non-Destructive Test for Metallic Material						
Serial No.	Title	Test Object	Test Property	Expected Delivery Time	Fees (USD)	Select
NIL PT-4682	Non-Destructive testing of welds (Ultrasonic testing)	Steel Plate	Location of indication, length of indication	May., 2024	550+ carriage	<input type="checkbox"/>
NIL PT-4690	Non-Destructive testing of welds (X-Ray testing)	Steel Plate	length of indication	May., 2024	550+ carriage	<input type="checkbox"/>
NIL PT-4695	Non-Destructive testing of welds (Magnetic testing)	Steel Plate	Display position, display length	May., 2024	550+ carriage	<input type="checkbox"/>



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NIL PT-4698	Non-Destructive testing of welds (Penetrant testing)	Steel Plate	Display position, display length	May., 2024	550+ carriage	<input type="checkbox"/>
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Rubber and Leather

Serial No.	Title	Test Object	Test Property	Expected Delivery Time	Fees (USD)	Select
SIC -XJ2024019	Rubber and elastomer materials — Determination of N-nitrosamines	Rubber	N-nitrosamines	Apr., 2024	300+ carriage	<input type="checkbox"/>
SIC -PG2024001	Determination of Chromium (VI) Content in Leather	Leather	Chromium (VI)	Apr., 2024	300+ carriage	<input type="checkbox"/>
SIC -PG2024002	Determination of pH of Leather	Leather	pH	Apr., 2024	300+ carriage	<input type="checkbox"/>
SIC -PG2024003	Determination of Longitudinal Stiffness for Shanks of Footwear-	Shanks for Footwear	Longitudinal Stiffness	Apr., 2024	300+ carriage	<input type="checkbox"/>
SIC -PG2024004	Determination of Abrasion Resistance of Sole	Rubber	Abrasion Resistance of Sole	Apr., 2024	300+ carriage	<input type="checkbox"/>
SIC -XJ2024020	Determination of Abrasion Resistance of Rubber (Using a Rotating Cylindrical Drum Device)	Rubber	Abrasion Resistance of Rubber	Apr., 2024	300+ carriage	<input type="checkbox"/>
SIC -PG2024005	Determination of Formaldehyde Content in Leather	Leather	Formaldehyde	Apr., 2024	300+ carriage	<input type="checkbox"/>
SIC -PG2024006	Determination of Rockwell Hardness in Shanks for Footwear	Shanks for Footwear	Rockwell Hardness	Apr., 2024	300+ carriage	<input type="checkbox"/>
SIC -PG2024007	Determination of Heavy Metal Content in Leather	Leather	Total Cadmium Content; Total Lead Content	Apr., 2024	300+ carriage	<input type="checkbox"/>
SIC -PG2024008	Determination of Double Edge Tear Load for Leather	Leather	Double Edge Tear	Jul., 2024	300+ carriage	<input type="checkbox"/>
SIC -PG2024009	Tests for Colour Fastness — Colour Fastness to Cycles of to-and-fro Rubbing for Leather	Leather	Colour Fastness to Cycles of to-and-fro Rubbing	Jul., 2024	300+ carriage	<input type="checkbox"/>
SIC -PG2024010	Determination of Banned Azo Colorants in Leather	Leather	Banned Azo Colorants	Jul., 2024	300+ carriage	<input type="checkbox"/>
SIC -PG2024011	Determination of Phthalates in Leather	Leather	Phthalates	Jul., 2024	300+ carriage	<input type="checkbox"/>



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Serial No.	Title	Test Object	Test Property	Expected Delivery Time	Fees (USD)	Select
SIC -PG2024012	Determination of Upper Sole Adhesion for Footwear	Rubber	Adhesion	Jul., 2024	300+ carriage	<input type="checkbox"/>

***Note:** For NIL PT-4135-1, NIL PT-4135-2, NIL PT-4135-3, NIL PT-4136-1, NIL PT-4136-2, NIL PT-4142-1, NIL PT-4142-2, NIL PT-4144, NIL PT-4167, NIL PT-4168-1, NIL PT-4168-2, NIL PT-4172, 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 in our PT schemes

Method 1:

Log in the website to register, which is <http://www.nilpt.com>

Method 2:

Select the PT schemes in the table 1 and send the order to nil@analysis.org.cn

Registration information of Laboratory

Name of Laboratory:

Postal Address & Zip Code:

Contact Person:

Country:

E-mail:

Tel:

China NIL Research Center for Proficiency Testing

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

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

Phone: +86 10 6218 1064

E-mail: nil@analysis.org.cn

Website: <http://www.nilpt.com>

* 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.