China NIL International Proficiency Testing Schemes (2025)

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 the competence of proficiency testing providers". The international proficiency testing schemes for 2025 are listed in the following Table 1.

Catalogue

Chemical Analysis for Metal and Alloy 2

Mineral and Metallurgical Material 4

Coal and Coke 6

Cement 7

Soil 7

Water 8

Textiles 9

RoHS 9

Plastic 10

Microstructure of metal Materials (Special for ISO Standard) 11

Mechanical Properties for Metal Materials (Special for ISO Standard) 12

Mechanical Properties for Materials (Special for ASTM Standard / Nadcap Accreditation) 17

Microstructure of Metal Materials (Special for ASTM Standard / Nadcap Accreditation) 18

Non-Destructive Test for Metallic Material 19

Coating 19

Rubber and Leather 19

Table 1 NIL International Proficiency Testing Schemes for 2025

Chemical Analysis for Metal and Alloy						
Serial No.	**Title**	**Test Object**	**Test Property**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NIL PT-4792-1	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., 2025	350+ carriage	□Discs □Chips
NIL PT-4792-2	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., 2025	350+ carriage	□Discs □Chips
NIL PT-4792-3	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., 2025	350+ carriage	□Discs □Chips
NIL PT-4793-1	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., 2025	350+ carriage	□Discs □Chips
NIL PT-4793-2	Determination of Cr, Ni, Cu, Mo and Al in medium and low alloy steel	Medium and low alloy steel	Cr, Ni, Cu, Mo, Al	Sep., 2025	350+ carriage	□Discs □Chips
NIL PT-4794-1	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., 2025	300+ carriage	□Chips
NIL PT-4794-2	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	Sep., 2025	300+ carriage	□Chips
NIL PT-4795-1	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., 2025	350+ carriage	□Discs
NIL PT-4795-2	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	Sep., 2025	350+ carriage	□Discs
NIL PT-4796-1	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., 2025	350+ carriage	□Discs
NIL PT-4796-2	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	Sep., 2025	350+ carriage	□Discs

Serial No.	Title	Test Object	Test Property	Expected Delivery Time	Fees (USD)	Select
NIL PT-4799-1	Determination of Si, Mn, P, Cr and Ni in stainless steel	Stainless steel	Si, Mn, P, Cr, Ni	Apr., 2025	350+ carriage	□Discs □Chips
NIL PT-4799-2	Determination of Si, Mn, P, Cr and Ni in stainless steel	Stainless steel	Si, Mn, P, Cr, Ni	Sep., 2025	350+ carriage	□Discs □Chips
NIL PT-4800-1	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., 2025	350+ carriage	□Discs
NIL PT-4800-2	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	Sep., 2025	350+ carriage	□Discs
NIL PT-4802	Determination of C, Si, P, S, Mo in ferromolybdenum	Ferromolybdenum	C, Si, P, S, Mo	Sep., 2025	350+ carriage	□Chips
NIL PT-4803-1	Determination of C and S content in steel	Steel	C, S	Mar., 2025	280+ carriage	□Chips
NIL PT-4803-2	Determination of C and S content in steel	Steel	C, S	Jun., 2025	280 + carriage	□Chips
NIL PT-4803-3	Determination of C and S content in steel	Steel	C, S	Sep, 2025	280+ carriage	□Chips
NIL PT-4804-1	Determination of O and N content in steel	Steel	O, N	Jun., 2025	280 + carriage	□Chips
NIL PT-4804-2	Determination of O and N content in steel	Steel	O, N	Oct., 2025	280+ carriage	□Chips
NIL PT-4805	Determination of H content in steel	Steel	H	Oct., 2025	300 + carriage	□Chips
NIL PT-4808	Determination of Mo, Al, Ti, Nb in high-temperature alloy	High-Temperature Alloy	Mo, Al, Ti, Nb	Oct., 2025	400 + carriage	□Chips
NIL PT-4812	Determination of Si, Mn, P, Al and Ca in ferrosilicon	Ferrosilicon	Si, Mn, P, Al, Ca	Sep., 2025	300+ carriage	□Chips
NIL PT-4814	Determination of C, Si, Mn, P,S, Ni and Cr in ferronickel	Ferronickel	C, Si, Mn, P, S, Ni, Cr	Oct., 2025	300 + carriage	□Chips
NIL PT-4815	Determination of C, Si, Mn, P and Cr in low-carbon ferrochromium	Low-carbon ferrochromium	C, Si, Mn, P, Cr	Sep., 2025	300 + carriage	□Chips
NIL PT-4816	Determination of Si, Mn, P and S in silicon manganese alloy	Silicon manganese alloy	Si, Mn, P, S	Oct., 2025	300+ carriage	□Chips
NIL PT-4818	Determination of C, Si, Mn, P, S, V and Al in ferrovanadium	Ferrovanadium	C, Si, Mn, P, S, V, Al	Oct., 2025	400+ carriage	□Chips
NIL PT-4821	Determination of Si, Fe, Cu, Mg and Zn in pure aluminum	Pure aluminum	Si, Fe, Cu, Mg, Zn	Sep., 2025	320 + carriage	□Discs □Chips

NIL PT-4822-1	Determination of Si, Fe, Cu, Mg and Mn in aluminum alloy	Aluminum alloy	Si, Fe, Cu, Mg, Mn	May., 2025	320+ carriage	□Discs □Chips
NIL PT-4822-2	Determination of Si, Fe, Cu, Mg and Mn in aluminum alloy	Aluminum alloy	Si, Fe, Cu, Mg, Mn	Jul., 2025	320 + carriage	□Discs □Chips
NIL PT-4823	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., 2025	320 + carriage	□Discs
NIL PT-4824	Determination of Cu, Mg, Fe and Al in zinc alloy	Zinc alloy	Cu, Mg, Fe, Al	Oct., 2025	320 + carriage	□Chips
NIL PT-4826	Determination of Zn, Fe, Ni, Pb and Cu in copper alloy	Copper alloy	Zn, Fe, Ni, Pb, Cu	Oct., 2025	320 + carriage	□Discs □Chips
NIL PT-4828	Determination of O in copper	Copper	O	Oct., 2025	320 + carriage	□
NIL PT-4829	Determination of Cu, Ag, Au in blister copper	Blister Copper	Cu, Ag, Au	Jul., 2025	500 + carriage	□Chips
NIL PT-4830	Determination of Fe, Al, V and Si in titanium alloy	Titanium alloy	Fe, Al, V, Si	Jul., 2025	500 + carriage	□Chips
NIL PT-4831	Determination of O, N, and H in titanium alloy	Titanium alloy	O, N, H	Oct., 2025	500 + carriage	□Grain
NIL PT-4832	Determination of Cr, Ni, Cu and Mo in titanium alloy	Titanium alloy	Cr, Ni, Cu, Mo	Sep., 2025	500+ carriage	□Chips
Mineral and Metallurgical Material						
Serial No.	**Title**	**Test Object**	**Test Property**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NILPT-4840-1	Determination of TFe, SiO_2, P and S in iron ore	Iron ore	TFe, SiO_2, P, S	Apr., 2025	300 + carriage	□
NILPT-4840-2	Determination of TFe, SiO_2, P and S in iron ore	Iron ore	TFe, SiO_2, P, S	Aug., 2025	300 + carriage	□
NIL PT-4841	Determination of CaO, MgO and Al_2O_3 in iron ore	Iron ore	CaO, MgO, Al_2O_3	Jun., 2025	300 + carriage	□
NIL PT-4842	Determination of TFe and FeO in iron ore	Iron ore	TFe, FeO	Jun., 2025	300 + carriage	□
NIL PT-4843	Determination of K and Na in iron ore	Iron ore	K, Na	Jun., 2025	300 + carriage	□
NIL PT-4844	Determination of Ca, Si, Mn, Al, P and Mg in iron ore by X-ray	Iron ore	Ca, Si, Mn, Al,	Jun., 2025	450 + carriage	□

	fluorescence spectrometry		P, Mg			
NIL PT-4846	Determination of Mn and Ti in iron ore	Iron ore	Mn, Ti	Jun., 2025	300 + carriage	□
NIL PT-4847	Determination of TMn, TFe, SiO_2 and Al_2O_3 in manganese ore	Manganese ore	TMn, TFe, SiO_2, Al_2O_3	Aug., 2025	300 + carriage	□
NIL PT-4848	Determination of TiO_2 and Ni in manganese ore	Manganese ore	TiO_2, Ni	Jun., 2025	300 + carriage	□
NIL PT-4850	Determination of CaF_2, SiO_2 and TFe in fluorite	Fluorite	CaF_2, SiO_2, TFe	Aug., 2025	300 + carriage	□
NILPT-4851-1	Determination of SiO_2, CaO, MgO, Fe_2O_3 and Al_2O_3 in limestone	Limestone	SiO_2, CaO, MgO, Fe_2O_3, Al_2O_3	Apr., 2025	300 + carriage	□
NILPT-4851-2	Determination of SiO_2, CaO, MgO, Fe_2O_3 and Al_2O_3 in limestone	Limestone	SiO_2, CaO, MgO, Fe_2O_3, Al_2O_3	Aug., 2025	300 + carriage	□
NIL PT-4852	Determination of SiO_2, CaO, MgO, Fe_2O_3 and Al_2O_3 in limestone by X-ray fluorescence spectrometry	Limestone	SiO_2, CaO, MgO, Fe_2O_3, Al_2O_3	Oct., 2025	450 + carriage	□
NIL PT-4853	Determination of Ni, SiO_2, TFe and MgO in nickel ore	Nickel ore	Ni, SiO_2, TFe, MgO	Aug., 2025	300 + carriage	□
NIL PT-4854	Determination of Zn, Pb and Cu in zinc ore	Zinc ore	Zn, Pb, Cu	Aug., 2025	300 + carriage	□
NIL PT-4856	Determination of Zn, Cu, Pb and Cd in zinc concentrates	Zinc concentrates	Zn, Cu, Pb, Cd	Jun., 2025	300 + carriage	□
NIL PT-4857	Determination of Cu, S, Au and Ag in copper concentrates	Copper concentrates	Cu, S, Au ,Ag	Jun., 2025	320 + carriage	□
NIL PT-4859	Determination of Pb, Cu, Zn and As in lead concentrates	Lead concentrates	Pb, Cu, Zn, As	Jun., 2025	300 + carriage	□

NIL PT-4860	Determination of Cu, Pb, Zn and Fe in polymetallic ore	Polymetallic ore	Cu, Pb, Zn, Fe	Jun., 2025	300 + carriage	□
NIL PT-4862	Determination of Al_2O_3, SiO_2, Fe_2O_3, CaO and TiO_2 in bauxite	Bauxite	Al_2O_3, SiO_2, Fe_2O_3, CaO, TiO_2	Jun., 2025	300 + carriage	□
NIL PT-4864	Determination of SiO_2, CaO, MgO, Fe_2O_3 and Al_2O_3 in silicate rock	Silicate rock	SiO_2, CaO, MgO, Fe_2O_3, Al_2O_3	Jun., 2025	300 + carriage	□
NIL PT-4865	Determination of Au and Ag in ore	Ore	Au, Ag	Jun., 2025	350 + carriage	□
NIL PT-4867	Determination of Fe, Al and Ca in metallurgical silicon	Metallurgical silicon	Fe, Al, Ca	Jun., 2025	300 + carriage	□
NIL PT-4868	Determination of SiO_2, CaO and Al_2O_3 in clay	Clay	SiO_2, CaO, Al_2O_3	Jun., 2024	300 + carriage	□
NIL PT-4869	Determination of SiO_2, CaO, MgO, Al_2O_3 and Fe_2O_3 in high-alumina refractories	High-alumina refractories	SiO_2, CaO, MgO, Al_2O_3, Fe_2O_3	Jul., 2025	300 + carriage	□
Coal and Coke						
Serial No.	**Title**	**Test Object**	**Test Property**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NILPT-4878-1	Proximate analysis of coke	Coke	Sulphur, ash, volatile matter	Apr., 2025	300 + carriage	□
NILPT-4878-2	Proximate analysis of coke	Coke	Sulphur, ash, volatile matter	Aug., 2025	300 + carriage	□
NILPT-4879-1	Proximate analysis of coal	Coal	Sulphur, ash, volatile matter	Apr., 2025	300 + carriage	□
NILPT-4879-2	Proximate analysis of coal	Coal	Sulphur, ash,	Aug., 2025	300 + carriage	□

			volatile matter			
NIL PT-4880	Determination of calorific value of coal	Coal	Calorific value	Jun., 2025	300 + carriage	□
NIL PT-4881	Determination of C, H and N in coal	Coal	C, H, N	Jun., 2025	300 + carriage	□

Cement

Serial No.	Title	Test Object	Test Property	Expected Delivery Time	Fees (USD)	Select
NIL PT-4898	Determination of loss on ignition, magnesium oxide, Calcium oxide and sulfur trioxide in cement	Cement	Loss on ignition, MgO, CaO,SO_3	Sep., 2025	450+ carriage	□
NIL PT-4899	Determination of chloride ions in cement	Cement	Chloride ions	Sep., 2025	450+ carriage	□
NIL PT-4900	Determination of density of Cement	Cement	Density	Sep., 2025	450+ carriage	□
NIL PT-4901	Determination of fineness and specific surface area of Cement	Cement	Fineness , Specific surface area	Sep., 2025	450+ carriage	□

Soil

Serial No.	Title	Test Object	Test Property	Expected Delivery Time	Fees (USD)	Select
NILPT-4926-1	Determination of Pb and Cd in soil	Soil	Pb ,Cd	Jun., 2025	350 + carriage	□
NILPT-4926-2	Determination of Pb and Cd in soil	Soil	Pb ,Cd	Oct., 2025	350 + carriage	□
NILPT-4927-1	Determination of Ni, Cu and Zn in soil	Soil	Ni, Cu, Zn	Jun., 2025	350 + carriage	□
NILPT-4927-2	Determination of Ni, Cu and Zn in soil	Soil	Ni, Cu, Zn	Oct., 2025	350 + carriage	□
NILPT-4928-1	Determination of total Hg and total As in soil	Soil	Total Hg, Total As	Jun., 2025	350 + carriage	□
NILPT-4928-2	Determination of total Hg and total As in soil	Soil	Total Hg, Total As	Oct., 2025	350 + carriage	□
NILPT-4929-1	Determination of total Cr in soil	Soil	Total Cr	Jun., 2025	350 + carriage	□
NILPT-4929-2	Determination of total Cr in soil	Soil	Total Cr	Oct., 2025	350 + carriage	□

NIL PT-4932	Determination of Fe and Mn in soil	Soil	Fe,Mn	Sep., 2025	350 + carriage	□
NIL PT-4934	Determination of Se in soil	Soil	Se	Jul., 2025	350 + carriage	□
NIL PT-4939	Determination of total P in soil	Soil	Total P	Sep., 2025	350 + carriage	□
NIL PT-4940	Determination of total K in soil	Soil	Total K	Sep., 2025	350 + carriage	□
NILPT-4948-1	Determination of pH in soil	Soil	pH at 25°C	May., 2025	350 + carriage	□
NILPT-4948-2	Determination of pH in soil	Soil	pH at 25°C	Sep., 2025	350 + carriage	□
NIL PT-4967	Determination of Ni, Cu and Zn in solid waste	Solid waste	Ni, Cu, Zn	Aug., 2025	350 + carriage	□
NIL PT-4968	Determination of Fe and Mn in solid waste	Solid waste	Fe,Mn	Aug., 2025	350 + carriage	□
NIL PT-4969	Determination of Pb and Cd in solid waste	Solid waste	Pb,Cd	Aug., 2025	350 + carriage	□
NIL PT-4970	Determination of Total As and sotal Hg in solid waste	Solid waste	Total As, Total Hg	Aug., 2025	350 + carriage	□
Water						
Serial No.	**Title**	**Test Object**	**Test Property**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NILPT-4994-1	Determination of Pb in water	Water	Pb	Apr., 2025	200+ carriage	□
NILPT-4994-2	Determination of Pb in water	Water	Pb	Sep., 2025	200+ carriage	□
NILPT-4996-1	Determination of Cd in water	Water	Cd	Apr., 2025	200+ carriage	□
NILPT-4996-2	Determination of Cd in water	Water	Cd	Sep., 2025	200+ carriage	□
NILPT-4997-1	Determination of As in water	Water	As	Apr., 2025	200+ carriage	□

NILPT-4997-2	Determination of As in water	Water	As	Sep., 2025	200+ carriage	□
NILPT-4999-1	Determination of Ni in water	Water	Ni	Apr., 2025	200+ carriage	□
NILPT-4999-2	Determination of Ni in water	Water	Ni	Sep., 2025	200+ carriage	□
NILPT-5000-1	Determination of Cu in water	Water	Cu	Apr., 2025	200+ carriage	□
NILPT-5000-2	Determination of Cu in water	Water	Cu	Sep., 2025	200+ carriage	□
NILPT-5001-1	Determination of Zn in water	Water	Zn	Apr., 2025	200+ carriage	□
NILPT-5001-2	Determination of Zn in water	Water	Zn	Sep., 2025	200+ carriage	□
NILPT-5002-1	Determination of Mn in water	Water	Mn	Apr., 2025	200+ carriage	□
NILPT-5002-2	Determination of Mn in water	Water	Mn	Sep., 2025	200+ carriage	□
NIL PT-5006	Determination of Fe in water	Water	Fe	Sep., 2025	200+ carriage	□
NIL PT-5007	Determination of Al in water	Water	Al	Jul., 2025	200+ carriage	□
Textiles						
Serial No.	**Title**	**Test Object**	**Test Property**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NIL PT-5190	Determination of pH of aqueous extract in textiles	Textiles	pH at 25°C	Sep., 2025	300 + carriage	□
RoHS						
Serial No.	**Title**	**Test Object**	**Test Property**	**Expected Delivery Time**	**Fees (USD)**	**Select**

NIL PT-5218	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., 2025	320 + carriage	□
NIL PT-5219	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., 2025	320 + carriage	□
NIL PT-5220	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., 2025	320 + carriage	□
NIL PT-5221	Restricted substances in electronic and electrical products – Determination of noxious substance content in ABS	Electronic and electrical products – ABS	Pb, Cd, Hg, Br	Sep., 2025	400 + carriage	□
NIL PT-5223	Restricted substances in electronic and electrical products – Determination of flame retardant content in plastic	Electronic and electrical products – plastic	BDE-209	Sep., 2025	400 + carriage	□

Plastic and plastic film

Serial No.	Title	Test Object	Test Property	Expected Delivery Time	Fees (USD)	Select
NIL PT-5228	Determination of phthalate plasticizers in plastic toy	Plastics	DBP, DEHP, BBP, DINP, DIDP, DNOP, DIBP	Sep., 2025	450 + carriage	□
NIL PT-5229	Determination of halogen in plastic	Plastics	Cl、Br	Sep., 2025	500 + carriage	□
NIL PT-5230	Determination of the melt mass-flow rate (MFR) of thermoplastics(ISO 1133-1)	Plastics	MFR	Jul., 2025	450 + carriage	□
NIL PT-5231	Determination of density of plastics (ISO 1183-1,method A-Immersion method)	Plastics	Density	Jul., 2025	450+ carriage	□

NIL PT-5236	Determination of vicat softening temperature of plastics（ISO 306）	Plastics	vicat softening temperature	Jul., 2025	550+ carriage	□
NIL PT-5238	Determination of tensile properties of plastic (ISO 527-1/-2)	Plastics	stress at yield, strength, stress at X% strain, strain at yield	Jul., 2025	550+ carriage	□
NIL PT-5239	Determination of charpy impact properties of plastic (ISO 179-1)	Plastics	Charpy notched impact strength	Jul., 2025	550+ carriage	□
NIL PT-5242	Plastics and ebonite - Determination of indentation hardness by means of a durometer (Shore hardness) （ISO 868）	Plastics	Shore hardness	Jul., 2025	450+ carriage	□
NIL PT-5269	Determination of water vapour transmission rate of plastic film (Infrared detection sensor method) (ISO 15106-2)	Plastic film	water vapour transmission rate	Aug., 2025	500+ carriage	□
NIL PT-5270	Determination of gas-transmission rate of plastic film (only for ISO 15105-1 Method using a pressure sensor)	Plastic film	oxygen transmission rate	Aug., 2025	500+ carriage	□
NIL PT-5271	Determination of thickness of plastic film (ISO 4593)	Plastic film	thickness	Aug., 2025	400+ carriage	□
Microstructure of metal Materials (Special for ISO Standard)						
Serial No.	**Title**	**Test Object**	**Test Property**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NIL PT-5275	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., 2025	300+ carriage	□
NIL PT-5276	Determination of average grain size in metallic materials (Only for Intercept Procedure, ASTM E112 Please register NIL PT-5372)	Steel (Material object)	Grain size number	Sep., 2025	450+ carriage	□

NIL PT-5278	Determination of average grain size in aluminium alloy (Only for Intercept Procedure)	Aluminium alloy (Photo)	Grain size number	Aug., 2025	300+ carriage	□
NIL PT-5281	Determination of depth of decarburization of steels (Only for ISO 3887)	Steel	Depth of decarburization	Jul., 2025	450+ carriage	□
NIL PT-5284	Determination of metal coating thickness (Microscopical method) (Only for ISO 1463)	Metal coating	Thickness of metal coating	Jul., 2025	450+ carriage	□
NILPT-5297-1	Salt Spray - mass loss determination – Steel (Only for ISO 9227, ASTM B117 please register NIL PT-5374)	Steel	Mass loss	May., 2025	500+ carriage	□
NILPT-5297-2	Salt Spray - mass loss determination – Steel (Only for ISO 9227, ASTM B117 please register NIL PT-5374)	Steel	Mass loss	Sep., 2025	500+ carriage	□
NIL PT-5310	Particle size analysis(Laser diffraction methods)(Only for ISO 13320)	powder	D_{10}、D_{50}、D_{90}	July., 2025	500+ carriage	□

Mechanical Properties for Metal Materials (Special for ISO Standard)

Serial No.	Title	Test Object	Test Property	Expected Delivery Time	Fees (USD)	Select
NILPT-5315-1	Brinell hardness test for metallic materials (Only for ISO 6506-1)	Steel	HBW 2.5/187.5	May., 2025	450+ carriage	□
NILPT-5315-2	Brinell hardness test for metallic materials (Only for ISO 6506-1)	Steel	HBW 2.5/187.5	Oct., 2025	450+ carriage	□
NILPT-5316-1	Brinell hardness test for metallic materials (Only for ISO 6506-1)	Steel	HBW 5/750	May., 2025	450+ carriage	□
NILPT-5316-2	Brinell hardness test for metallic materials (Only for ISO 6506-1)	Steel	HBW 5/750	Sep., 2025	450+ carriage	□
NILPT-5317-1	Brinell hardness test for metallic materials (Only for ISO 6506-1)	Steel	HBW 10/3000	Apr., 2025	450+ carriage	□
NILPT-5317-2	Brinell hardness test for metallic materials (Only for ISO 6506-1)	Steel	HBW 10/3000	Sep., 2025	450+ carriage	□
NIL PT-5318	Rockwell hardness test for metallic materials (Only for ISO 6508-1)	Steel	HRA	Jul., 2025	450+ carriage	□
NILPT-5319-1	Rockwell hardness test for metallic materials	Steel	HRB	May.,2025	450+ carriage	□

	(Only for ISO 6508-1)					
NILPT-5319-2	Rockwell hardness test for metallic materials (Only for ISO 6508-1)	Steel	HRB	Sep.,2025	450+ carriage	□
NILPT-5320-1	Rockwell hardness test for metallic materials (Only for ISO 6508-1)	Steel	HRC	Apr., 2025	450+ carriage	□
NILPT-5320-2	Rockwell hardness test for metallic materials (Only for ISO 6508-1)	Steel	HRC	Jul., 2025	450+ carriage	□
NILPT-5320-3	Rockwell hardness test for metallic materials (Only for ISO 6508-1)	Steel	HRC	Oct., 2025	450+ carriage	□
NIL PT-5321	Vickers hardness test for metallic materials (Only for ISO 6507-1)	Steel	HV0.2	Sep., 2025	500+ carriage	□
NIL PT-5322	Vickers hardness test for metallic materials (Only for ISO 6507-1)	Steel	HV1	Sep., 2025	500+ carriage	□
NIL PT-5323	Vickers hardness test for metallic materials (Only for ISO 6507-1)	Steel	HV5	Sep., 2025	450+ carriage	□
NILPT-5324-1	Vickers hardness test for metallic materials (Only for ISO 6507-1)	Steel	HV10	Apr., 2025	450+ carriage	□
NILPT-5324-2	Vickers hardness test for metallic materials (Only for ISO 6507-1)	Steel	HV10	Oct., 2025	450+ carriage	□
NIL PT-5325	Vickers hardness test for metallic materials (Only for ISO 6507-1)	Steel	HV30	Oct., 2025	450+ carriage	□
NILPT-5327-1	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., 2025	600+ carriage	□
NILPT-5327-2	Room temperature tensile test for metallic materials (Recommended testing machine: 100kN~300kN.	Steel	R_m, R_{eL}, A, Z, $R_{p0.2}$	Oct.., 2025	600+ carriage	□

	Diameter of sample: Φ10mm, M16 normal screw threaded both ends. Matched chucking heads are required. Only for ISO 6892-1)					
NIL PT-5328	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., 2025	600+ carriage	□
NIL PT-5329	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., 2025	600+ carriage	□
NIL PT-5330	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)	Steel	R_m, R_{eL}, A, Z,$R_{p0.2}$	Sep., 2025	600+ carriage	□
NILPT-4914-1	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., 2025	500+ carriage	□
NILPT-4914-2	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., 2025	500+ carriage	□
NILPT-4915	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., 2025	500+ carriage	□
NIL PT-5332	Room temperature tensile test for cold-rolled plate of metallic	Steel-cold rolled plate	R_m, A, $R_{p0.2}$	Jun., 2025	550+ carriage	□

	materials (Recommended testing machine: 20kN~50kN. Only for ISO 6892-1)					
NILPT-5333-1	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., 2025	550+ carriage	□
NILPT-5333-2	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., 2025	550+ carriage	□
NIL PT-5334	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., 2025	550+ carriage	□
NIL PT-5335	Room temperature tensile test for steel wire (Recommended testing machine: 50kN~100kN. Only for ISO 6892-1)	Steel wire	R_m, A	Aug., 2025	500+ carriage	□
NIL PT-5339	Room temperature tensile test for steel pipes (Recommended testing machine: 300kN~600kN. Sample outside diameter: 20~30mm. Only for ISO 6892-1)	Steel tube	R_m, $R_{p0.2}$, A	Oct., 2025	550+ carriage	□
NIL PT-5340	Room temperature tensile test for aluminum alloy sheet (Recommended testing machine: 50kN~100kN. Sample thickness 2~4mm. Only for ISO 6892-1）	Aluminum alloy sheet	R_m, $R_{p0.2}$, A	Aug., 2025	550+ carriage	□
NIL PT-5341	Room temperature tensile test for aluminum alloy bars (Recommended testing machine: 50kN~100kN. Diameter of sample: Φ10mm, M16 normal screw threaded both ends. Matched chucking heads are required. Only	Aluminum alloy bars	R_m, A, Z ,$R_{p0.2}$	Sep., 2025	550+ carriage	□

	for ISO 6892-1）					
NIL PT-5343	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	May., 2025	600+ carriage	□
NIL PT-5344	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	Sep., 2025	600+ carriage	□
NIL PT-5345	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	May., 2025	600+ carriage	□
NIL PT-5346	Charpy impact test for metallic materials (Striker R=2mm.V notch. Recommended testing machine: ≥300J. Only for ISO 148-1)	Steel	Impact Absorbed Energy $KV2$	Oct., 2025	600+ carriage	□
NIL PT-5347	Low-temperature Charpy impact test for metallic materials (Striker R=2mm. Recommended testing machine: ≥150J. Only for ISO 148-1)	Steel	Impact Absorbed Energy	Sep., 2025	600+ carriage	□
NIL PT-5348	Elevated temperature tensile test for metallic materials (Recommended testing machine: 50kN~100kN.Diameter of sample: Φ5mm, M12 normal screw threaded both ends. Matched chucking heads are required. Temperature: ≥300℃. Only for ISO 6892-2）	Steel	R_m, $R_{p0.2}$, A, Z	Aug., 2025	600+ carriage	□
NIL PT-5349	Uniaxial tension creep test for metallic materials（Only for ISO 204）	Steel	Creep fracture time, Elongation after creep fracture, Reduction of area after	Aug., 2025	650+ carriage	□

			creep fracture			
NIL PT-5351	High Cycle Fatigue Test（Only for ISO 1099）	Metallic materials	Life duration （Number of cycles）	Aug., 2025	1000+ carriage	□
Mechanical Properties for Materials (Special for ASTM Standard / Nadcap Accreditation)						
Serial No.	**Title**	**Test Object**	**Test Property**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NIL PT-5362	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	Sep., 2025	600+ carriage	□
NIL PT-5363	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., 2025	600+ carriage	□
NIL PT-5364	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., 2025	650+ carriage	□
NILPT-5365	Charpy impact test for metallic	Steel	Impact	Sep., 2025	600+	□

	materials (Striker R=8mm. V notch. Recommended testing machine: ≥150J. Only for ASTM E23)		Absorbed Energy		carriage	
NIL PT-5366	Brinell hardness test for metallic materials (Only for ASTM E10)	Steel	HBW 10/3000	Oct., 2025	550+ carriage	□
NIL PT-5367	Rockwell hardness test for metallic materials (Only for ASTM E18)	Steel	HRC	Oct., 2025	550+ carriage	□
NIL PT-5368	Vickers hardness test for metallic materials (Only for ASTM E92)	Steel	HV10	Oct., 2025	600+ carriage	□
NIL PT-5369	Vickers hardness test for metallic materials (Only for ASTM E384)	Steel	HV0.5	Oct., 2025	600+ carriage	□
NIL PT-5370	Uniaxial tension creep test for metallic materials（Only for ASTM E 139）	Steel	Creep fracture time, Elongation after creep fracture, Reduction of area after creep fracture	Aug., 2025	700+ carriage	□
NIL PT-5371	High Cycle Fatigue Test（Only for ASTM E466）	Metallic materials	Life duration （Number of cycles）	Aug., 2025	1000+ carriage	□
Microstructure of Metal Materials (Special for ASTM Standard / Nadcap Accreditation)						
Serial No.	**Title**	**Test Object**	**Test Property**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NIL PT-5372	ASTM-Determination of average grain size in metallic materials (Recommendation for Intercept Procedure. Only for ASTM E112)	Steel (Material object)	Grain size number	Sep., 2025	450+ carriage	□
NIL PT-5373	ASTM-Determination of content of nonmetallic inclusions (Only for ASTM E45)	Steel (Photo)	Inclusion Rate	Aug., 2025	300+ carriage	□
NIL PT-5374	ASTM- Salt Spray - mass loss determination – Steel (Only for ASTM B117)	Steel	Mass loss	Aug., 2025	500+ carriage	□

NIL PT-5375	ASTM-Determination of depth of decarburization of steels (Only for ASTM E1077)	Steel	Depth of decarburization	Jul., 2025	450+ carriage	□
NIL PT-5376	ASTM-Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels(Practice E) (Only for ASTM A262)	Stainless steel	Intergranular Attack	Jun., 2025	500+ carriage	□
Non-Destructive Test for Metallic Material						
Serial No.	**Title**	**Test Object**	**Test Property**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NIL PT-5397	Non-Destructive testing of welds (Ultrasonic testing)	Steel Plate	Location of indication, length of indication	May., 2025	550+ carriage	□
NIL PT-5405	Non-Destructive testing of welds (X-Ray testing)	Steel Plate	Length of indication	May., 2025	550+ carriage	□
NIL PT-5410	Non-Destructive testing of welds (Magnetic particle testing)	Steel Plate	Display position, display length	May., 2025	550+ carriage	□
NIL PT-5414	Non-Destructive testing of welds (Penetrant testing)	Steel Plate	Display position, display length	May., 2025	550+ carriage	□
NIL PT-5390	Determination of organic coating thickness of steel plate - Magnetic method	Steel plate coating	Coating thickness	Aug., 2025	550+ carriage	□
Coating						
Serial No.	**Title**	**Test Object**	**Test Property**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NIL PT-5442	Determination of total Pb in waterborne coatings	Coating	Total Pb	Sep., 2025	300 + carriage	□
NIL PT-5443	Determination of soluble heavy metals in waterborne coatings	Coating	Soluble cadmium	Sep., 2025	300 + carriage	□

Rubber and Leather						
Serial No.	**Title**	**Test Object**	**Test Property**	**Expected Delivery Time**	**Fees (USD)**	**Select**

Rubber and Leather						
Serial No.	**Title**	**Test Object**	**Test Property**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NIL PT-5256	Determination of tensile strength of vulcanized rubber (ISO 37)	Rubber	tensile strength	Jul., 2025	500+ carriage	☐
NIL PT-5258	Determination of density of vulcanized rubber (Only for ISO 2781 Method A)	Rubber	density	Jul., 2025	400+ carriage	☐
NIL PT-5260	Determination of compression set of vulcanized rubber (elevated temperatures) (ISO 815)	Rubber	compression set	Jul., 2025	500+ carriage	□
SIC -PG2025001	Determination of Chromium (VI) Content in Leather	Leather	Chromium (VI)	Apr., 2025	300+ carriage	□
SIC -PG2025002	Determination of pH of Leather	Leather	pH	Apr., 2025	300+ carriage	□
SIC -PG2025003	Determination of Longitudinal Stiffness for Shanks of Footwear-	Shanks for Footwear	Longitudinal Stiffness	Apr., 2025	300+ carriage	□
SIC -PG2025004	Determination of Abrasion Resistance of Sole	Rubber	Abrasion Resistance of Sole	Apr., 2025	300+ carriage	□
SIC -PG2025005	Determination of Formaldehyde Content in Leather	Leather	Formaldehyde	Apr., 2025	300+ carriage	□
SIC -PG2025006	Determination of Rockwell Hardness in Shanks for Footwear	Shanks for Footwear	Rockwell Hardness	Apr., 2025	300+ carriage	□
SIC -PG2025007	Determination of Heavy Metal Content in Leather	Leather	Total Cadmium Content; Total Lead Content	Apr., 2025	300+ carriage	□
SIC -PG2025008	Determination of Double Edge Tear Load for Leather	Leather	Double Edge Tear	Jul., 2025	300+ carriage	□
SIC -PG2025009	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., 2025	300+ carriage	□

Rubber and Leather						
Serial No.	**Title**	**Test Object**	**Test Property**	**Expected Delivery Time**	**Fees (USD)**	**Select**
SIC -PG2025010	Determination of Banned Azo Colorants in Leather	Leather	Banned Azo Colorants	Jul., 2025	300+ carriage	□
SIC -PG2025011	Determination of Phthalates in Leather	Leather	Phthalates	Jul., 2025	300+ carriage	□
SIC -XJ2025019	Rubber and elastomer materials — Determination of N-nitrosamines	Rubber	N-nitrosamines	Apr., 2025	300+ carriage	□
SIC -XJ2025020	Determination of Abrasion Resistance of Rubber （Using a Rotating Cylindrical Drum Device）	Rubber	Abrasion Resistance of Rubber	Apr., 2025	300+ carriage	□

***Note: For NIL PT-4792-1, NIL PT-4792-2, NIL PT-4792-3, NIL PT-4793-1, NIL PT-4793-2, NIL PT-4822-1, NIL PT-4822-2, NIL PT-4826,NIL PT-4799-1, NIL PT-4799-2, NIL PT-4821 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.**

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: _____

F-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.