China NIL International Proficiency Testing Schemes (2027)

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", and also internationally recognized. The international proficiency testing schemes for 2027 are listed in the following Table 1.

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Table 1 NIL International Proficiency Testing Schemes for 2027

Chemical Analysis for Metal and Alloy							
Serial No.	**Title**	**Test Object**	**Test Property**	**Quantitative method**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NIL PT-6389-1	Determination of C, Si, Mn, P and S in medium and low alloy steel （chip sample）	Medium and low alloy steel	C, Si, Mn, P, S	ASTM E1019 ISO 15350 ISO 4829-1 ISO 4829-2 ISO 629 ISO/TR 17055	May.,2027	350+ carriage	□Chips
NIL PT-6389-2	Determination of C, Si, Mn, P and S in medium and low alloy steel （chip sample）	Medium and low alloy steel	C, Si, Mn, P, S	ASTM E1019 ISO 15350 ISO 4829-1 ISO 4829-2 ISO 629 ISO/TR 17055	Aug.,2027	350+ carriage	□Chips
NIL PT-6390-1	Determination of Cr, Ni, Cu, Mo and Al in medium and low alloy steel （chip sample）	Medium and low alloy steel	Cr, Ni, Cu, Mo, Al	ISO 4937 ISO 4940	May.,2027	350+ carriage	□Chips
NIL PT-6390-2	Determination of Cr, Ni, Cu, Mo and Al in medium and low alloy steel （chip sample）	Medium and low alloy steel	Cr, Ni, Cu, Mo, Al	ISO 4937 ISO 4940	Aug.,2027	350+ carriage	□Chips
NIL PT-6391-1	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	Any validated method	May.,2027	350+ carriage	□Chips
NIL PT-6391-2	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	Any validated method	Aug., 2027	350+ carriage	□Chips

NIL PT-6392-1	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	ASTM E415	Apr., 2027	350+ carriage	□Discs
NIL PT-6392-2	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	ASTM E415	Jun., 2027	350+ carriage	□Discs
NIL PT-6392-3	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	ASTM E415	Sep.,2027	350+ carriage	□Discs
NIL PT-6393-1	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	ASTM E415	Apr.,2027	350+ carriage	□Discs
NIL PT-6393-2	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	ASTM E415	Aug.,2027	350+ carriage	□Discs
NIL PT-6396-1	Determination of Si, Mn, P, Cr , Ni and Ti in stainless steel（chip sample）	Stainless steel	Si, Mn, P, Cr, Ni, Ti	Any validated method	May.,2027	350+ carriage	□Chips
NIL PT-6396-2	Determination of Si, Mn, P, Cr , Ni and Ti in stainless steel（chip sample）	Stainless steel	Si, Mn, P, Cr, Ni, Ti	Any validated method	Sep.,2027	350+ carriage	□Chips

NIL PT-6397-1	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	ASTM E1086	Apr.,2027	350+ carriage	□Discs
NIL PT-6397-2	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	ASTM E1086	Jun.,2027	350+ carriage	□Discs
NIL PT-6397-3	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	ASTM E1086	Sep.,2027	350+ carriage	□Discs
NIL PT-6410	Determination of C, Si, P, S, Mo in ferromolybdenum	Ferromolybdenum	C, Si, P, S, Mo	Any validated method	Sep.,2027	350+ carriage	□Chips
NIL PT-6398-1	Determination of C and S content in steel	Steel	C, S	ASTM E1019	May.,2027	280+ carriage	□Chips
NIL PT-6398-2	Determination of C and S content in steel	Steel	C, S	ASTM E1019	Jun., 2027	280 + carriage	□Chips
NIL PT-6398-3	Determination of C and S content in steel	Steel	C, S	ASTM E1019	Sep, 2027	280+ carriage	□Chips
NIL PT-6400-1	Determination of O and N content in steel	Steel	O, N	ASTM E1019	May.,2027	280 + carriage	□Chips
NIL PT-6400-2	Determination of O and N content in steel	Steel	O, N	ASTM E1019	Jul.,2027	280+ carriage	□Chips
NIL PT-6400-3	Determination of O and N content in steel	Steel	O, N	ASTM E1019	Sep.,2027	280+ carriage	□Chips
NIL PT-6402	Determination of H content in steel	Steel	H	ASTM E1019	Oct.,2027	300 + carriage	□Chips

NIL PT-6403	Determination of Mo, Al, Ti, Nb in high-temperature alloy	High-Temperature Alloy	Mo, Al, Ti, Nb	ASTM E2594	Oct., 2027	400 + carriage	□Chips
NIL PT-6407	Determination of Si, Mn, P, Al and Ca in ferrosilicon	Ferrosilicon	Si,Mn, P, Al, Ca	ASTM E372	Sep., 2027	300+ carriage	□Chips
NIL PT-6409	Determination of C, Si, Mn, P,S, Ni and Cr in ferronickel	Ferronickel	C, Si, Mn, P, S, Ni, Cr	ASTM E1917	Oct.,2027	300 + carriage	□Chips
NIL PT-6411	Determination of C, Si, Mn, P and Cr in low-carbon ferrochromium	Low-carbon ferrochromium	C, Si, Mn, P, Cr	Any validated method	Sep.,2027	300 + carriage	□Chips
NIL PT-6412	Determination of Si, Mn, P and S in silicon manganese alloy	Silicon manganese alloy	Si, Mn, P, S	Any validated method	Oct., 2027	300+ carriage	□Chips
NIL PT-6413	Determination of C, Si, Mn, P, S, V and Al in ferrovanadium	Ferrovanadium	C, Si, Mn, P, S, V, Al	Any validated method	Oct., 2027	400+ carriage	□Chips
NIL PT-6417	Determination of Si, Fe, Cu, Mg and Zn in pure aluminum	Pure aluminum	Si, Fe, Cu, Mg, Zn	Any validated method	Oct., 2027	320 + carriage	□Discs □Chips
NIL PT-6418-1	Determination of Si, Fe, Cu, Mg and Mn in aluminum alloy	Aluminum alloy	Si, Fe, Cu, Mg, Mn	ASTM E3061 ASTM E1251	Jun., 2027	320+ carriage	□Discs □Chips
NIL PT-6418-2	Determination of Si, Fe, Cu, Mg and Mn in aluminum alloy	Aluminum alloy	Si, Fe, Cu, Mg, Mn	ASTM E3061 ASTM E1251	Sep.,2027	320 + carriage	□Discs □Chips
NIL PT-6419	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	ASTM E1251	Oct., 2027	320 + carriage	□Discs

NIL PT-6420	Determination of Cu, Mg, Fe and Al in zinc alloy	Zinc alloy	Cu, Mg, Fe, Al	Any validated method	Oct., 2027	320 + carriage	□Chips
NIL PT-6422	Determination of Zn, Fe, Ni, Pb and Cu in copper alloy	Copper alloy	Zn, Fe, Ni, Pb, Cu	Any validated method	Oct., 2027	320 + carriage	□Discs □Chips
NIL PT-6427	Determination of Cu, Ag, Au in blister copper	Blister Copper	Cu, Ag, Au	YS/T521	Aug., 2027	500 + carriage	□Chips
NIL PT-6428	Determination of Fe, Al, V and Si in titanium alloy	Titanium alloy	Fe, Al, V, Si	ASTM E2371	Aug., 2027	500 + carriage	□Chips
NIL PT-6429	Determination of O, N, and H in titanium alloy	Titanium alloy	O, N, H	ASTM E1409 ASTM E1447	Oct., 2027	500 + carriage	□Grain
NIL PT-6430	Determination of Cr, Ni, Cu and Mo in titanium alloy	Titanium alloy	Cr, Ni, Cu, Mo	ASTM E2371	Sep., 2027	500+ carriage	□Chips

Mineral and Metallurgical Material

Serial No.	Title	Test Object	Test Property	Quantitative method	Expected Delivery Time	Fees (USD)	Select
NILPT-6439-1	Determination of TFe, SiO_2, P and S in iron ore	Iron ore	TFe, SiO_2, P, S	ISO 11535 ISO 2598-1 ISO 2597-1 ISO 4687-1 ISO 9516	May., 2027	300 + carriage	□
NILPT-6439-2	Determination of TFe, SiO_2, P and S in iron ore	Iron ore	TFe, SiO_2, P, S	ISO 11535 ISO 2598-1 ISO 2597-1 ISO 4687-1 ISO 9516	Aug., 2027	300 + carriage	□
NIL PT-6440	Determination of CaO, MgO and Al_2O_3 in iron ore	Iron ore	CaO, MgO, Al_2O_3	ISO 11535 ISO 6830 ISO 9516	Jun., 2027	300 + carriage	□
NIL PT-6441	Determination of TFe and FeO in iron ore	Iron ore	TFe, FeO	ISO 9035 ISO 2597-1	Jun., 2027	300 + carriage	□
NIL PT-6442	Determination of K and Na in iron ore	Iron ore	K, Na	ISO 13313 ISO 13312	Jun., 2027	300 + carriage	□
NIL PT-6443	Determination of Ca, Si, Mn, Al, P and Mg in iron ore by X-ray	Iron ore	Ca, Si, Mn, Al, P, Mg	ISO 9516	Jun., 2027	450 + carriage	□

	fluorescence spectrometry						
NIL PT-6444	Determination of Mn and Ti in iron ore	Iron ore	Mn, Ti	ISO 11535 ISO 9516	Jun., 2027	300 + carriage	□
NIL PT-6445	Determination of TMn, TFe, SiO_2 and Al_2O_3 in manganese ore	Manganese ore	TMn, TFe, SiO_2, Al_2O_3	ISO 5890 ISO 9292	Jul., 2027	300 + carriage	□
NIL PT-6446	Determination of TiO_2 and Ni in manganese ore	Manganese ore	TiO_2, Ni	ISO 7723	Jul., 2027	300 + carriage	□
NIL PT-6448	Determination of CaF_2, SiO_2 and TFe in fluorite	Fluorite	CaF_2, SiO_2, TFe	ASTM E815 ASTM E463	Aug., 2027	300 + carriage	□
NILPT-6449-1	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	Any validated method	May., 2027	300 + carriage	□
NILPT-6449-2	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	Any validated method	Aug., 2027	300 + carriage	□
NIL PT-6450	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	Any validated method	Oct., 2027	450 + carriage	□
NIL PT-6451	Determination of Ni, SiO_2, TFe and MgO in nickel ore	Nickel ore	Ni, SiO_2, TFe, MgO	Any validated method	Aug., 2027	300 + carriage	□
NIL PT-6452	Determination of Zn, Pb and Cu in zinc ore	Zinc ore	Zn, Pb, Cu	Any validated method	Aug., 2027	300 + carriage	□
NIL PT-6454	Determination of Zn, Cu, Pb and Cd in zinc concentrates	Zinc concentrates	Zn, Cu, Pb, Cd	ISO 19976 ISO 12739 ISO 13291 ISO 13658	Jun.,2027	300 + carriage	□
NIL PT-6455	Determination of Cu, S, Au and Ag in copper	Copper concentrates	Cu, S, Au ,Ag	ISO 10378 ISO 10258 ASTM	Aug., 2027	320 + carriage	□

	concentrates			E1898			
NIL PT-6458	Determination of Pb, Cu, Zn and As in lead concentrates	Lead concentrates	Pb, Cu, Zn, As	ISO 13545 ISO 11441	Jun., 2027	300 + carriage	□
NIL PT-6459	Determination of Cu, Pb, Zn and Fe in polymetallic ore	Polymetallic ore	Cu, Pb, Zn, Fe	Any validated method	Jun., 2027	300 + carriage	□
NIL PT-6461	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	Any validated method	Jun., 2027	300 + carriage	□
NIL PT-6463	Determination of SiO_2, CaO, MgO, TFe_2O_3 and Al_2O_3 in silicate rock	Silicate rock	SiO_2, CaO, MgO, TFe_2O_3, Al_2O_3	ISO 21587	Jun., 2027	300 + carriage	□
NIL PT-6464	Determination of Au and Ag in ore	Ore	Au, Ag	Any validated method	Jun., 2027	350 + carriage	□
NIL PT-6466	Determination of Fe, Al and Ca in metallurgical silicon	Metallurgical silicon	Fe, Al, Ca	Any validated method	Jun.,2027	300 + carriage	□
NIL PT-6467	Determination of SiO_2, CaO and Al_2O_3 in clay	Clay	SiO_2, CaO, Al_2O_3	Any validated method	Jun., 2027	300 + carriage	□
NIL PT-6468	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	ISO 21079 ISO 26845	Jul., 2027	300 + carriage	□
Coal and Coke							
Serial No.	**Title**	**Test Object**	**Test Property**	**Quantitative method**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NILPT-6483-1	Proximate analysis of coke	Coke	Sulphur, ash, volatile matter	ASTM D4239 ASTM D3174 ISO 1171 ISO 562	May., 2027	300 + carriage	□

NILPT-6483-2	Proximate analysis of coke	Coke	Sulphur, ash, volatile matter	ASTM D4239 ASTM D3174 ISO 1171 ISO 562	Aug., 2027	300 + carriage	□
NILPT-6484-1	Proximate analysis of coal	Coal	Sulphur, ash, volatile matter	ASTM D4239 ISO 19579 ASTM D3174 ISO 1171 ISO 562	May., 2027	300 + carriage	□
NILPT-6484-2	Proximate analysis of coal	Coal	Sulphur, ash, volatile matter	ASTM D4239 ISO 19579 ASTM D3174 ISO 1171 ISO 562	Aug., 2027	300 + carriage	□
NIL PT-6485	Determination of calorific value of coal	Coal	Calorific value	ISO 1928	Jul., 2027	300 + carriage	□
NIL PT-6486	Determination of C, H and N in coal	Coal	C, H, N	ISO 29541 ISO 625	Jul., 2027	300 + carriage	□
Cement							
Serial No.	**Title**	**Test Object**	**Test Property**	**Quantitative method**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NIL PT-6521	Determination of loss on ignition, magnesium oxide, Calcium oxide and sulfur trioxide in cement	Cement	Loss on ignition, MgO, CaO,SO_3	ISO 29581	Sep., 2027	450+ carriage	□
NIL PT-6522	Determination of chloride ions in cement	Cement	Chloride ions	ISO 29581	Sep., 2027	450+ carriage	□
NIL PT-6523	Determination of density of cement	Cement	Density	Any validated method	Sep., 2027	450+ carriage	□
NIL PT-6524	Determination of fineness and specific surface area of cement	Cement	Fineness ,Specific surface area	ASTM C1891 ASTM C204	Sep., 2027	450+ carriage	□

Soil							
Serial No.	**Title**	**Test Object**	**Test Property**	**Quantitative method**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NILPT-6546-1	Determination of Pb and Cd in soil	Soil	Pb ,Cd	Any validated method	Jun., 2027	350 + carriage	□
NILPT-6546-2	Determination of Pb and Cd in soil	Soil	Pb ,Cd	Any validated method	Oct., 2027	350 + carriage	□
NILPT-6547-1	Determination of Ni, Cu and Zn in soil	Soil	Ni, Cu, Zn	Any validated method	Jun., 2027	350 + carriage	□
NILPT-6547-2	Determination of Ni, Cu and Zn in soil	Soil	Ni, Cu, Zn	Any validated method	Oct., 2027	350 + carriage	□
NILPT-6548-1	Determination of total Hg and total As in soil	Soil	Total Hg, Total As	Any validated method	Jun., 2027	350 + carriage	□
NILPT-6548-2	Determination of total Hg and total As in soil	Soil	Total Hg ,Total As	Any validated method	Oct., 2027	350 + carriage	□
NILPT-6549-1	Determination of total Cr in soil	Soil	Total Cr	Any validated method	Jun., 2027	350 + carriage	☐
NILPT-6549-2	Determination of total Cr in soil	Soil	Total Cr	Any validated method	Oct., 2027	350 + carriage	□
NIL PT-6552	Determination of Fe and Mn in soil	Soil	Fe,Mn	Any validated method	Sep., 2027	350 + carriage	□
NIL PT-6554	Determination of Se in soil	Soil	Se	Any validated method	Jul., 2027	350 + carriage	□
NIL PT-6559	Determination of total P in soil	Soil	Total P	Any validated method	Sep., 2027	350 + carriage	□
NIL PT-6560	Determination of total K in soil	Soil	Total K	Any validated method	Sep., 2027	350 + carriage	□
NILPT-6568-1	Determination of pH in soil	Soil	pH at 25°C	Any validated	Jun., 2027	350 + carriage	□

				method			
NILPT-6568-2	Determination of pH in soil	Soil	pH at 25°C	Any validated method	Oct., 2027	350 + carriage	□
NIL PT-6588	Determination of Ni, Cu and Zn in solid waste	Solid waste	Ni, Cu, Zn	Any validated method	Aug., 2027	350 + carriage	□
NIL PT-6589	Determination of Fe and Mn in solid waste	Solid waste	Fe,Mn	Any validated method	Aug., 2027	350 + carriage	□
NIL PT-6590	Determination of Pb and Cd in solid waste	Solid waste	Pb,Cd	Any validated method	Aug., 2027	350 + carriage	□
NIL PT-6591	Determination of Total As and Total Hg in solid waste	Solid waste	Total As, Total Hg	Any validated method	Aug., 2027	350 + carriage	□
Water							
Serial No.	**Title**	**Test Object**	**Test Property**	**Quantitative method**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NILPT-6615-1	Determination of Pb in water	Water	Pb	ISO 17294-2 ISO 11885	Apr., 2027	200+ carriage	□
NILPT-6615-2	Determination of Pb in water	Water	Pb	ISO 17294-2 ISO 11885	Sep., 2027	200+ carriage	□
NILPT-6617-1	Determination of Cd in water	Water	Cd	ISO 17294-2 ISO 11885	Apr., 2027	200+ carriage	□
NILPT-6617-2	Determination of Cd in water	Water	Cd	ISO 17294-2 ISO 11885	Sep., 2027	200+ carriage	□
NILPT-6618-1	Determination of As in water	Water	As	ISO 17294-2 ISO 11885	Apr., 2027	200+ carriage	□
NILPT-6618-2	Determination of As in water	Water	As	ISO 17294-2 ISO 11885	Sep., 2027	200+ carriage	□
NILPT-6620-1	Determination of Ni in water	Water	Ni	ISO 17294-2 ISO 11885	Apr., 2027	200+ carriage	□
NILPT-6620-2	Determination of Ni in water	Water	Ni	ISO 17294-2 ISO 11885	Sep., 2027	200+ carriage	□

NILPT-6621-1	Determination of Cu in water	Water	Cu	ISO 17294-2 ISO 11885	Apr., 2027	200+ carriage	□
NILPT-6621-2	Determination of Cu in water	Water	Cu	ISO 17294-2 ISO 11885	Sep., 2027	200+ carriage	□
NILPT-6622-1	Determination of Zn in water	Water	Zn	ISO 17294-2 ISO 11885	Apr., 2027	200+ carriage	□
NILPT-6622-2	Determination of Zn in water	Water	Zn	ISO 17294-2 ISO 11885	Sep., 2027	200+ carriage	□
NILPT-6623-1	Determination of Mn in water	Water	Mn	ISO 17294-2 ISO 11885	Apr., 2027	200+ carriage	□
NILPT-6623-2	Determination of Mn in water	Water	Mn	ISO 17294-2 ISO 11885	Sep., 2027	200+ carriage	□
NIL PT-6627	Determination of Fe in water	Water	Fe	ISO 17294-2 ISO 11885	Sep., 2027	200+ carriage	□
NIL PT-6628	Determination of Al in water	Water	Al	ISO 17294-2 ISO 11885	Jul., 2027	200+ carriage	□
RoHS							
Serial No.	**Title**	**Test Object**	**Test Property**	**Quantitative method**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NIL PT-6741	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	IEC62321-5	Jun., 2027	320 + carriage	□
NIL PT-6742	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	IEC62321-5	Jun., 2027	320 + carriage	□
NIL PT-6743	Restricted substances in electronic and	Electronic and electrical products –	Pb, Cd	IEC62321-5	Jun., 2027	320 + carriage	□

	electrical products – Determination of Pb and Cd content in zinc and zinc alloys	zinc and zinc alloys					
NIL PT-6744	Restricted substances in electronic and electrical products – Determination of noxious substance content in ABS	Electronic and electrical products – ABS	Pb, Cd, Hg, Br	IEC62321-5	Aug., 2027	400 + carriage	□
NIL PT-6746	Restricted substances in electronic and electrical products – Determination of flame retardant content in plastic	Electronic and electrical products – plastic	BDE-209	IEC62321-6 IEC62321-12	Aug., 2027	400 + carriage	□
NIL PT-6750	Restricted substances in electronic and electrical products – Determination of Cr(Ⅵ) in plastic	Electronic and electrical products – plastic	Cr(Ⅵ)	IEC62321-7-2	Aug., 2027	400 + carriage	□
Plastic and plastic film							
Serial No.	**Title**	**Test Object**	**Test Property**	**Quantitative method**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NIL PT-6759	Determination of phthalate plasticizers in plastic toy	Plastics	DBP, DEHP, BBP, DINP	IEC62321-8	Sep., 2027	450 + carriage	□
NIL PT-6760	Determination of halogen in plastic	Plastic	Cl、Br	IEC62321-3-2 EN14582	Sep., 2027	500 + carriage	□
NIL PT-6764	Determination of the melt mass-flow rate (MFR) of thermoplastics	Plastics	MFR	ISO 1133-1	Jul., 2027	450 + carriage	□
NIL PT-6765	Determination of density of plastics	Plastics	Density	ISO 1183-1, method	Jul., 2027	450+ carriage	□

				A-Immersion method			
NIL PT-6770	Determination of vicat softening temperature of plastics	Plastics	Vicat softening temperature	ISO 306	Jul., 2027	550+ carriage	□
NIL PT-6772	Determination of tensile properties of plastic	Plastics	Stress at yield, Strength, Stress at X% strain, Strain at yield	ISO 527-1 ISO 527-2	Jul., 2027	550+ carriage	□
NIL PT-6773	Determination of charpy impact properties of plastic	Plastics	Charpy notched impact strength	ISO 179-1	Jul., 2027	550+ carriage	□
NIL PT-6809	Determination of water vapour transmission rate of plastic film (Infrared detection sensor method)	Plastic film	Water vapour transmission rate	ISO 15106-2	Aug., 2027	500+ carriage	□
NIL PT-6810	Determination of gas-transmission rate of plastic film	Plastic film	Oxygen transmission rate	ISO 15105-1 Method using a pressure sensor	Aug., 2027	500+ carriage	□
NIL PT-6811	Determination of thickness of plastic film	Plastic film	Thickness	ISO 4593	Aug., 2027	400+ carriage	□
Microstructure of metal Materials (Special for ISO Standard)							
Serial No.	**Title**	**Test Object**	**Test Property**	**Quantitative method**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NIL PT-6815-1	Determination of average grain size in metallic materials (Intercept Procedure）（ASTM E112	Steel	Grain size number	ISO 643	May., 2027	300+ carriage	☐Picture

	Please register NIL PT-6930）						
NIL PT-6815-2	Determination of average grain size in metallic materials (Intercept Procedure）（ASTM E112 Please register NIL PT-6930）	Steel	Grain size number	ISO 643	Sep., 2027	450+ carriage	□ Material object
NIL PT-6817	Determination of average grain size in aluminium alloy (Intercept Procedure)	Aluminium alloy	Grain size number	Intercept Procedure	Aug., 2027	300+ carriage	□
NIL PT-6820	Determination of depth of decarburization of steels	Steel	Depth of decarburization	ISO 3887	Jul., 2027	450+ carriage	□
NIL PT-6823	Determination of metal coating thickness (Microscopical method)	Metal coating	Thickness of metal coating	ISO 1463	Jul., 2027	450+ carriage	□
NIL PT-6831	Titanium and titanium alloy surface contamination	Titanium alloy	Alpha case	EN 2003-009	Aug., 2027	500+ carriage	□
NILPT-6838-1	Salt Spray - mass loss determination – Steel (ASTM B117 please register NIL PT-6932)	Steel	Mass loss	ISO 9227	May., 2027	500+ carriage	□
NILPT-6838-2	Salt Spray - mass loss determination – Steel (ASTM B117 please register NIL PT-6932)	Steel	Mass loss	ISO 9227	Sep., 2027	500+ carriage	□

NIL PT-6855	Particle size analysis(Laser diffraction methods)	powder	$D_{10,3}$ $D_{50,3}$ $D_{90,3}$	ISO 13320	July., 2027	500+ carriage	□
Mechanical Properties for Metal Materials (Special for ISO Standard)							
Serial No.	**Title**	**Test Object**	**Test Property**	**Quantitative method**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NIL PT-6861-1	Brinell hardness test for metallic materials	Steel	HBW 2.5/187.5	ISO 6506-1	May., 2027	450+ carriage	□
NIL PT-6861-2	Brinell hardness test for metallic materials	Steel	HBW 2.5/187.5	ISO 6506-1	Oct., 2027	450+ carriage	□
NIL PT-6862-1	Brinell hardness test for metallic materials	Steel	HBW 5/750	ISO 6506-1	May., 2027	450+ carriage	□
NIL PT-6862-2	Brinell hardness test for metallic materials	Steel	HBW 5/750	ISO 6506-1	Sep., 2027	450+ carriage	□
NIL PT-6863-1	Brinell hardness test for metallic materials	Steel	HBW 10/3000	ISO 6506-1	Apr., 2027	450+ carriage	□
NIL PT-6863-2	Brinell hardness test for metallic materials	Steel	HBW 10/3000	ISO 6506-1	Sep., 2027	450+ carriage	□
NIL PT-6864	Brinell hardness test for metallic materials	Steel	HBW 10/1000	ISO 6506-1	Aug., 2027	450+ carriage	□
NIL PT-6865	Rockwell hardness test for metallic materials	Steel	HRA	ISO 6508-1	Jul., 2027	450+ carriage	□
NIL PT-6866-1	Rockwell hardness test for metallic materials	Steel	HRB	ISO 6508-1	May.,2027	450+ carriage	□
NIL PT-6866-2	Rockwell hardness test for metallic materials	Steel	HRB	ISO 6508-1	Sep.,2027	450+ carriage	□
NIL PT-6867-1	Rockwell hardness test for metallic materials	Steel	HRC	ISO 6508-1	Apr., 2027	450+ carriage	□
NIL PT-6867-2	Rockwell hardness test for metallic materials	Steel	HRC	ISO 6508-1	Jul., 2027	450+ carriage	□
NIL PT-6867-3	Rockwell hardness test for metallic materials	Steel	HRC	ISO 6508-1	Oct., 2027	450+ carriage	□
NIL PT-6868	Vickers hardness test for metallic materials	Steel	HV0.1	ISO 6507-1	Aug., 2027	500+ carriage	□

NIL PT-6869	Vickers hardness test for metallic materials	Steel	HV0.2	ISO 6507-1	Sep., 2027	500+ carriage	□
NIL PT-6870	Vickers hardness test for metallic materials	Steel	HV0.3	ISO 6507-1	Aug., 2027	500+ carriage	□
NIL PT-6871	Vickers hardness test for metallic materials	Steel	HV0.5	ISO 6507-1	Aug., 2027	500+ carriage	□
NIL PT-6872	Vickers hardness test for metallic materials	Steel	HV1	ISO 6507-1	Sep., 2027	500+ carriage	□
NIL PT-6873	Vickers hardness test for metallic materials	Steel	HV5	ISO 6507-1	Sep., 2027	450+ carriage	□
NIL PT-6874-1	Vickers hardness test for metallic materials	Steel	HV10	ISO 6507-1	Apr., 2027	450+ carriage	□
NIL PT-6874-2	Vickers hardness test for metallic materials	Steel	HV10	ISO 6507-1	Oct., 2027	450+ carriage	□
NIL PT-6875	Vickers hardness test for metallic materials	Steel	HV30	ISO 6507-1	Oct., 2027	450+ carriage	□
NILPT-6877-1	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.)	Steel	R_m, R_{eL}, A, Z,$R_{p0.2}$	ISO 6892-1	Apr., 2027	600+ carriage	□
NILPT-6877-2	Room temperature tensile test for metallic materials (Recommended testing machine: 100kN~300kN. Diameter of sample: Φ10mm, M16 normal screw threaded both	Steel	R_m, R_{eL}, A, Z, $R_{p0.2}$	ISO 6892-1	Oct., 2027	600+ carriage	□

	ends. Matched chucking heads are required.)						
NIL PT-6878	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.)	Steel	R_m, R_{eL}, A, Z,$R_{p0.2}$	ISO 6892-1	Jun., 2027	600+ carriage	□
NIL PT-6879	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.)	Steel	R_m, R_{eL}, A, Z,$R_{p0.2}$	ISO 6892-1	Aug., 2027	600+ carriage	□
NIL PT-6880	Room temperature tensile test for metallic materials (Recommended testing machine: 300kN~1000kN.Diameter of sample: Φ20mm, Diameter of terminal end: Φ27mm.)	Steel	R_m, R_{eL}, A, Z,$R_{p0.2}$	ISO 6892-1	Sep., 2027	600+ carriage	□
NILPT-6881	Room temperature tensile test for metallic materials	Steel	R_m, $R_{p0.2}$, A, Z	ISO 6892-1	Aug., 2027	600+ carriage	□

	(Recommended testing machine: 200kN~600kN. Diameter of sample: Φ10mm, M16 normal screw threaded both ends. Matched chucking heads are required.)						
NILPT-6530-1	Room temperature tensile test for hot rolled ribbed steel bars (Recommended testing machine: 300kN~1000kN.)	Hot rolled ribbed steel bars	R_m, R_{eL}, A	ISO 6892-1	May., 2027	500+ carriage	□
NILPT-6530-2	Room temperature tensile test for hot rolled ribbed steel bars (Recommended testing machine: 300kN~1000kN.)	Hot rolled ribbed steel bars	R_m, R_{eL}, A	ISO 6892-1	Oct., 2027	500+ carriage	□
NILPT-6532	Room temperature tensile test for hot rolled ribbed steel bars (Recommended testing machine: 300kN~1000kN.)	Hot rolled ribbed steel bars	R_m, R_{eL}, A, A_{gt}	ISO 15630-1	Aug., 2027	500+ carriage	□
NIL PT-6882	Room temperature tensile test for cold-rolled sheet of metallic materials (Recommended testing machine: 20kN~50kN.Sample thickness ≤ 2mm.)	Steel-cold rolled sheet	R_m, $R_{p0.2}$, A	ISO 6892-1	Jun., 2027	550+ carriage	□

NILPT-6883-1	Room temperature tensile test for hot-rolled plate of metallic materials (Recommended testing machine: 100kN~300kN. Sample thickness 3~6mm.)	Steel-hot rolled plate	R_m, R_{eL}, A, $R_{p0.2}$	ISO 6892-1	Apr., 2027	550+ carriage	□
NILPT-6883-2	Room temperature tensile test for hot-rolled plate of metallic materials (Recommended testing machine: 100kN~300kN. Sample thickness 3~6mm.)	Steel-hot rolled plate	R_m, R_{eL}, A, $R_{p0.2}$	ISO 6892-1	Oct., 2027	550+ carriage	□
NIL PT-6884	Room temperature tensile test for hot-rolled plate of metallic materials (Recommended testing machine: 300kN~1000kN. Sample thickness ＞10mm.)	Steel-hot rolled plate	R_m, R_{eL}, A, $R_{p0.2}$	ISO 6892-1	Aug., 2027	550+ carriage	□
NIL PT-6885	Room temperature tensile test for steel wire (Recommended testing machine: 50kN~100kN.)	Steel wire	R_m, A	ISO 6892-1	Aug., 2027	500+ carriage	□
NIL PT-6889	Room temperature tensile test for steel pipes (Recommended testing machine: 300kN~600kN. Sample outside diameter: 20~30mm.)	Steel tube	R_m, $R_{p0.2}$, A	ISO 6892-1	Sep., 2027	550+ carriage	□

NIL PT-6890	Room temperature tensile test for aluminum alloy sheet (Recommended testing machine: 50kN~100kN. Sample thickness 2~4mm.）	Aluminum alloy sheet	R_m, $R_{p0.2}$, A	ISO 6892-1	Aug., 2027	550+ carriage	□
NIL PT-6891	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.）	Aluminum alloy bars	R_m, $R_{p0.2}$,A, Z	ISO 6892-1	Sep., 2027	550+ carriage	□
NIL PT-6893	Charpy impact test for metallic materials (Striker R=2mm.U notch. Recommended testing machine: ≥150J.)	Steel	Absorbed energy KU_2	ISO 148-1	May., 2027	600+ carriage	□
NIL PT-6894	Charpy impact test for metallic materials (Striker R=2mm.U notch. Recommended testing machine: ≥300J.)	Steel	Absorbed energy KU_2	ISO 148-1	Sep., 2027	600+ carriage	□
NIL PT-6895	Charpy impact test for metallic materials (Striker R=2mm.V notch. Recommended	Steel	Absorbed energy KV_2	ISO 148-1	May., 2027	600+ carriage	□

	testing machine: ≥150J.)						
NIL PT-6896	Charpy impact test for metallic materials (Striker R=2mm.V notch. Recommended testing machine: ≥300J.)	Steel	Absorbed energy *KV*2	ISO 148-1	Oct., 2027	600+ carriage	□
NIL PT-6897	Low-temperature Charpy impact test for metallic materials (Striker R=2mm. Recommended testing machine: ≥150J.)	Steel	Absorbed energy	ISO 148-1	Sep., 2027	600+ carriage	□
NIL PT-6898	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℃.）	Steel	R_m, $R_{p0.2}$, A, Z	ISO 6892-2	Aug., 2027	600+ carriage	□
NIL PT-6899	Stress Rupture Test	Steel	Creep rupture time, Elongation after creep fracture, Reduction of area after creep	ISO 204	Aug., 2027	650+ carriage	□

			fracture				
NIL PT-6901	High Cycle Fatigue Test	Metallic materials	Life duration （Number of cycles）	ISO 1099	Aug., 2027	1000+ carriage	□
Mechanical Properties for Materials (Special for ASTM Standard)							
Serial No.	**Title**	**Test Object**	**Test Property**	**Quantitative method**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NIL PT-6915	Room temperature tensile test for metallic materials (Recommended testing machine: 100kN~300kN. Diameter of sample: Φ12.5mm.)	Steel	Tensile strength; Lower yield strength; Elongation after fracture; Reduction of area	ASTM E8/E8M or ASTM A370	Sep., 2027	600+ carriage	□
NIL PT-6916	Room temperature tensile test for aluminum alloy sheet (Recommended testing machine: 50kN~100kN.)	Aluminum alloy	Tensile strength , Yield strength (offset =0.2%), Elongation after fracture	ASTM B557	Aug., 2027	600+ carriage	□
NIL PT-6917	Charpy impact test for metallic materials (Striker R=8mm. V notch. Recommended testing machine: ≥150J.)	Steel	Absorbed energy	ASTM E23 or ASTM A370	Aug., 2027	600+ carriage	□
NIL PT-6918	Room temperature compression test for metallic materials	Aluminum alloy	Modulus of elasticity; Yield strength (offset=0.2 %)	ASTM E9	Aug., 2027	600+ carriage	□
NIL PT-6919	Brinell hardness test for metallic	Steel	HBW 10/3000	ASTM E10	Sep., 2027	550+ carriage	□

	materials						
NIL PT-6920	Rockwell hardness test for metallic materials	Steel	HRC	ASTM E18	Sep., 2027	550+ carriage	□
NIL PT-6921	Vickers hardness test for metallic materials	Steel	HV10	ASTM E92	Sep., 2027	600+ carriage	□
NIL PT-6922	Vickers hardness test for metallic materials	Steel	HV0.5	ASTM E384	Sep., 2027	600+ carriage	□
NIL PT-6923	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℃.）	Metallic materials	Tensile strength , Yield strength (offset =0.2%), Elongation after fracture, Reduction of area	ASTM E21	Aug., 2027	650+ carriage	□
NIL PT-6924	Stress Rupture Test	Metallic materials	Time to rupture, Elongation 4D, Reduction of Area	ASTM E139	Aug., 2027	700+ carriage	□
NIL PT-6925	High Cycle Fatigue Test	Metallic materials	Life duration （Number of cycles）	ASTM E466	Aug., 2027	1000+ carriage	□
NIL PT-6926*	Low Cycle Fatigue Test	Metallic materials	Cycles to failure（Nf）	ASTM E606/E606M	Aug., 2027	1000+ carriage	□
NIL PT-6927*	Fracture toughness	Metallic materials	K_Q or K_{IC}	ASTM E399	Sep., 2027	1000+ carriage	□
NIL PT-6928*	Crack propagation	Metallic	da/dN	ASTM E647	Sep., 2027	1000+	□

		materials				carriage	
NIL PT-6929	Tensile test for fiber-reinforced composite materials	Composite materials	Ultimate tensile strength, Ultimate tensile strain，Tensile chord modulus，Poisson's ratio	ASTM D3039/D3039M	Aug., 2027	1000+ carriage	□
Microstructure of Metal Materials (Special for ASTM Standard)							
Serial No.	**Title**	**Test Object**	**Test Property**	**Quantitative method**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NIL PT-6930	ASTM-Determination of average grain size in metallic materials (Recommendation for Intercept Procedure.)	Steel	Grain size number	ASTM E112	Aug.., 2027	450+ carriage	Material object□
NIL PT-6931	ASTM-Determination of content of nonmetallic inclusions	Steel	Inclusion rate	ASTM E45	Aug., 2027	300+ carriage	Picture□
NIL PT-6932	ASTM- Salt Spray - mass loss determination – Steel	Steel	Mass loss	ASTM B117	Aug., 2027	500+ carriage	□
NIL PT-6933	ASTM-Determination of depth of decarburization of steels	Steel	Depth of decarburization	ASTM E1077	Aug., 2027	450+ carriage	□
NIL PT-6934	ASTM-Detecting Susceptibility to Intergranular Attack in Austenitic Stainless Steels(Practice E)	Stainless steel	Intergranular Attack	ASTM A262	Aug., 2027	500+ carriage	□

Non-Destructive Test for Metallic Material							
Serial No.	**Title**	**Test Object**	**Test Property**	**Quantitative method**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NIL PT-6949-1	Non-Destructive testing of welds (Ultrasonic testing)	Steel Plate	Location of indication, Length of indication	ISO 17640 or any validated method	Jun., 2027	600+ carriage	□
NIL PT-6949-2	Non-Destructive testing of welds (Ultrasonic testing)	Steel Plate	Location of indication, Length of indication	ISO 17640 or any validated method	Aug., 2027	600+ carriage	□
NIL PT-6957-1	Non-Destructive testing of welds (X-Ray testing)	Steel Plate	Length of indication	ISO 17636-1 or any validated method	Jun., 2027	600+ carriage	□
NIL PT-6957-2	Non-Destructive testing of welds (X-Ray testing)	Steel Plate	Length of indication	ISO 17636-1 or any validated method	Aug., 2027	600+ carriage	□
NIL PT-6962-1	Non-Destructive testing of welds (Magnetic particle testing)	Steel Plate	Display position, Display length	ISO 17638 or any validated method	Jun., 2027	600+ carriage	□
NIL PT-6962-2	Non-Destructive testing of welds (Magnetic particle testing)	Steel Plate	Display position, Display length	ISO 17638 or any validated method	Aug., 2027	600+ carriage	□
NIL PT-6967-1	Non-Destructive testing of welds (Penetrant testing)	Steel Plate	Display position, Display length	ISO 3452-1 or any validated method	Jun., 2027	600+ carriage	□
NIL PT-6967-2	Non-Destructive testing of welds (Penetrant testing)	Steel Plate	Display position, Display length	ISO 3452-1 or any validated method	Aug., 2027	600+ carriage	□
NIL PT-6976	Determination of organic coating thickness of steel plate - Magnetic method	Steel plate coating	Coating thickness	ISO 2808，ISO 2178 or any validated method	Sep., 2027	500+ carriage	□

Coating							
Serial No.	**Title**	**Test Object**	**Test Property**	**Quantitative method**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NIL PT-6165	Determination of Total Pb in waterborne coatings	Coating	Total Pb	Any validated method	Sep., 2027	300 + carriage	□
NIL PT-6167	Determination of soluble heavy metals in waterborne coatings	Coating	Soluble cadmium	Any validated method	Sep., 2027	300 + carriage	□

Rubber and Leather							
Serial No.	**Title**	**Test Object**	**Test Property**	**Quantitative method**	**Expected Delivery Time**	**Fees (USD)**	**Select**
NIL PT-6790	Determination of tensile strength of vulcanized rubber	Rubber	Tensile strength	ISO 37	Jul., 2027	500+ carriage	□
NIL PT-6792	Determination of density of vulcanized rubber	Rubber	Density	ISO 2781 Method A	Jul., 2027	400+ carriage	□
NIL PT-6794	Determination of compression set of vulcanized rubber (elevated temperatures)	Rubber	Compression set	ISO 815-1	Jul., 2027	500+ carriage	□
SIC -PG2027001	Determination of Chromium (VI) Content in Leather	Leather	Chromium (VI)	Any validated method	Apr., 2027	300+ carriage	□
SIC -PG2027002	Determination of pH of Leather	Leather	pH	Any validated method	Apr., 2027	300+ carriage	□
SIC -PG2027003	Determination of Longitudinal Stiffness for Shanks of Footwear	Shanks for Footwear	Longitudinal Stiffness	Any validated method	Apr., 2027	300+ carriage	□
SIC -PG2027004	Determination of Abrasion Resistance of Sole	Rubber	Abrasion Resistance of Sole	Any validated method	Apr., 2027	300+ carriage	□

Rubber and Leather							
Serial No.	**Title**	**Test Object**	**Test Property**	**Quantitative method**	**Expected Delivery Time**	**Fees (USD)**	**Select**
SIC -PG2027005	Determination of Formaldehyde Content in Leather	Leather	Formaldehyde	Any validated method	Apr., 2027	300+ carriage	□
SIC -PG2027006	Determination of Rockwell Hardness in Shanks for Footwear	Shanks for Footwear	Rockwell Hardness	Any validated method	Apr., 2027	300+ carriage	□
SIC -PG2027007	Determination of Heavy Metal Content in Leather	Leather	Total Cadmium Content; Total Lead Content	Any validated method	Apr., 2027	300+ carriage	□
SIC -PG2027008	Determination of Double Edge Tear Load for Leather	Leather	Double Edge Tear	Any validated method	Jul., 2027	300+ carriage	□
SIC -PG2027009	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	Any validated method	Jul., 2027	300+ carriage	□
SIC -PG2027010	Determination of Banned Azo Colorants in Leather	Leather	Banned Azo Colorants	Any validated method	Jul., 2027	300+ carriage	□
SIC -PG2027011	Determination of Phthalates in Leather	Leather	Phthalates	Any validated method	Jul., 2027	300+ carriage	□
SIC -XJ2027019	Rubber and elastomer materials — Determination of N-nitrosamines	Rubber	N-nitrosamines	Any validated method	Apr., 2027	300+ carriage	□
SIC -XJ2027020	Determination of Abrasion Resistance of Rubber （Using a Rotating Cylindrical Drum Device）	Rubber	Abrasion Resistance of Rubber	Any validated method	Apr., 2027	300+ carriage	□

***Note: For NIL PT-6417, NIL PT-6418-1, NIL PT-6418-2 NIL PT-6422, 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.**

Special schemes for Nadcap Accreditation						
Gas elements and super alloys						
Scheme / dispatch[1]	**Material / analysis**	**Parameters**	**Reference method[2]**	**Sample**	**Fees (USD)**	**Select**
NIL-Chem-1-2027 Sep 2027	Stainless steel / carbon and sulfur	C, S	Any validated method	Chips	280+ carriage	□
NIL-Chem-2-2027 Sep 2027	Stainless steel / oxygen and nitrogen	O, N	Any validated method	Φ 6mm , spherical pellet	280+ carriage	□
NIL-Chem-3-2027 Sep 2027	Titanium Alloy /oxygen, nitrogen and hydrogen	O, N,H	Any validated method	Φ 6mm , spherical pelle	500+ carriage	□
NIL-Chem-4-2027 Sep 2027	Super alloys	Mo, Al, Ti, Nb	Any validated method	Chips	400+ carriage	□
NIL-Chem-5-2027 Sep 2027	Nickel-base super alloys	Pb, Sb, As, Sn, Bi	Any validated method	Chips	400+ carriage	□
NIL-Chem-6-2027 Oct 2027	Nickel-base super alloys	Cu,Mg,P,B,Co	Any validated method	Chips	500+ carriage	□
Non-ferrous metals and alloys						
NIL-Chem-7-2027 Sep 2027	Aluminum Alloy	Si, Fe, Cu, Mg, Mn	Any validated method	Chips	320+ carriage	□
NIL-Chem-8-2027 Sep 2027	Aluminum Alloy	Si, Fe, Cu, Cr, Ti, Zn	Any validated method	Disc	320+ carriage	□
NIL-Chem-9-2027 Sep 2027	Magnesium Alloy	Mn, Cu, Zn, Al	Any validated method	Chips	320+ carriage	□
NIL-Chem-10-2027 Sep 2027	Zinc Alloy	Cu, Fe, Al, Mg	Any validated method	Chips	320+ carriage	□
NIL-Chem-11-2027 Sep 2027	Copper Alloy	Zn, Ni, Cu, Fe, Pb	Any validated method	Chips	320+ carriage	□
NIL-Chem-12-2027 Sep 2027	Titanium Alloy	Fe, Al, V, Si	Any validated method	Chips	500+ carriage	□
NIL-Chem-13-2027 Sep 2027	Titanium Alloy	Cr, Ni, Cu, Mo	Any validated method	Chips	500+ carriage	□

[1] Original planned dispatch month, not a report date. Contact NIL to confirm availability and the current timetable.

[2] Use the method option and applicable edition agreed in the scheme instructions.

Special schemes for Nadcap Accreditation					
Mechanical testing of metallic materials					
Scheme / dispatch[1]	**Test / material**	**Reported parameters**	**Reference method[2]**	**Fees (USD)**	**Select**
NIL-Mech-1-2027 Aug 2027	Room-temperature tensile test / titanium alloy	Tensile strength; yield strength (offset=0.2%); elongation after fracture; reduction of area	ASTM E8/E8M; ASTM A370	600+ carriage	☐
NIL-Mech-2-2027 Aug 2027	Room-temperature tensile test / aluminium alloy	Tensile strength; yield strength (offset=0.2%); elongation after fracture	ASTM B557	600+ carriage	☐
NIL-Mech-3-2027 Aug 2027	Charpy V-notch impact test / ultra-high strength steel or other aviation related materials	Absorbed energy	ASTM E23; ASTM A370	600+ carriage	☐
NIL-Mech-4-2027 Aug 2027	Room-temperature compression Test / aluminium alloy	Modulus of elasticity; yield strength (offset=0.2%)	ASTM E9	600+ carriage	☐
NIL-Mech-5-2027 Aug 2027	Elevated-temperature tensile test / superalloy	Tensile strength; yield strength (offset=0.2%); elongation 4D; reduction of area	ASTM E21	700+ carriage	☐
NIL-Mech-6-2027 Aug 2027	Stress rupture test / superalloy	Time to rupture; elongation 4D; reduction of area	ASTM E139	700+ carriage	☐
NIL-Mech-7-2027 Aug 2027	High cycle fatigue (axial force control) / aluminium alloy	Fatigue life (number of cycles)	ASTM E466	1000+ carriage	☐
NIL-Mech-8-2027* Aug 2027	Low cycle fatigue (strain control) / aluminium alloy	Number of cycles to failure	ASTM E606/E606M	1000+ carriage	☐
NIL-Mech-9-2027* Sep 2027	Fracture toughness / ultra-high strength steel or other aviation related materials	Kq or K_{IC}	ASTM E399	1000+ carriage	☐

NIL-Mech-10-2027* Sep 2027	Crack propagation/ ultra-high strength steel or other aviation related materials	da/dN	ASTM E647	1000+ carriage	☐

[1] Original planned dispatch month, not a report date. Contact NIL to confirm availability and the current timetable.

[2] Use the method option and applicable edition agreed in the scheme instructions.

For NIL-Mech-8-2027, NIL-Mech-9-2027, NIL-Mech-10-2027, these activities fall outside the scope of Nil's accreditation to ISO/IEC 17043. Confirm the applicable accreditation status and provider-selection route before enrolment.

Special schemes for Nadcap Accreditation					
Hardness and metallography					
Scheme / dispatch[1]	**Test / material**	**Reported parameters**	**Reference method[2]**	**Fees (USD)**	**Select**
NIL-Hard-1-2027 Aug 2027	Hardness / aerospace bearing steel or other aviation related materials	Brinell hardness; Rockwell hardness	ASTM E10 and ASTM E18	550+ carriage	☐
NIL-Hard-2-2027 Aug 2027	Hardness / aerospace bearing steel or other aviation related materials	Rockwell hardness; Vickers hardness	ASTM E18 and ASTM E92	550+ carriage	☐
NIL-Hard-3-2027 Aug 2027	Hardness / aerospace bearing steel or other aviation related materials	Brinell hardness; Vickers hardness	ASTM E10 and ASTM E92	600+ carriage	☐
NIL-Hard-4-2027 Aug 2027	Microindentation hardness / aerospace bearing steel or other aviation related materials	Microhardness	ASTM E384	600+ carriage	☐
NIL-Micro-1-2027 Aug 2027	Average grain size / aluminium alloy or other aviation related materials	Grain size number	ASTM E112	450+ carriage	☐
NIL-Micro-2-2027 Aug 2027	Surface contamination / ttitanium alloy	Alpha case	EN 2003-009	500+ carriage	☐
NIL-Micro-3-2027 Aug 2027	Nonmetallic inclusions / steel photographs	Inclusion rate	ASTM E45	300+ carriage	☐
NIL-Micro-4-2027 Aug 2027	Decarburization / steel	Depth of decarburization	ASTM E1077	450+ carriage	☐
NIL-Micro-5-2027 Aug 2027	Welding and Brazing / picture	Classification of geometric imperfections	ISO 6520-1 and ISO 6520-2	300+ carriage	☐
NIL-Micro-6-2027 Aug 2027	Porosity / superalloy photographs	Porosity	Metallographic method	300+ carriage	☐

Corrosion testing					
Scheme / dispatch[1]	**Test / material**	**Reported parameters**	**Reference method[2]**	**Fees (USD)**	**Select**
NIL-Corr-1-2027 Aug 2027	Salt Spray - mass loss determination / steel	Mass loss	ASTM B117	500+ carriage	☐
NIL-Corr-2-2027 Aug 2027	Intergranular attack (Practice E) / austenitic stainless steel	Intergranular attack	ASTM A262	500+ carriage	☐
Coating testing					
Scheme / dispatch[1]	**Test / material**	**Reported parameters**	**Reference method[2]**	**Fees (USD)**	**Select**
NIL-Coat-1-2027 Jul 2027	Metal coating thickness (Microscopical method) /nickel-plate	Thickness of metal coating	ISO1463	450+ carriage	☐
NIL-Coat-2-2027 Sep 2027	Determination of organic coating thickness of steel plate - Magnetic method / steel plate coating	Coating thickness	ISO 2808; ISO 2178	500+ carriage	☐
NIL-Coat-3-2027 Sep 2027	Paints and varnishes-Cross-cut / steel plate coating	Adhesion	ISO 2409	500+ carriage	☐
Additional activities — check scope before enrolment					
Scheme / dispatch[1]	**Test / material**	**Reported parameters**	**Reference method[2]**	**Fees (USD)**	**Select**
NIL-Comp-1-2027 Aug 2027	Tensile test / fibre-reinforced composite materials	Ultimate tensile strength; ultimate tensile strain; tensile chord modulus of elasticity; Poisson's ratio	ASTM D3039/D3039M	1000+ carriage	☐
NIL-Phys-1-2027* Aug 2027	Electrical Conductivity (Eddy current methods) / aluminium alloy	Electrical Conductivity	EN 2004-1	500+ carriage	☐
NIL-Phys-2-2027 Jul 2027	Particle size analysis (Laser diffraction methods) / powder	D10,3; D50,3; D90,3	ISO 13320	500+ carriage	☐
NIL-Phys-3-2027 Oct 2027	Tap Density / Metallic Powders	Tap Density	ISO 3953	500+ carriage	☐
NIL-Phys-4-2027 Oct 2027	Flow Rate/ Metallic Powders	Flow Rate	ISO 4490	500+ carriage	☐

NIL-Phys-5-2027 Oct 2027	Apparent Density / Metallic Powders	Apparent Density	ISO 3923-1	500+ carriage	☐

[1] Original planned dispatch month, not a report date. Contact NIL to confirm availability and the current timetable.

[2] Use the method option and applicable edition agreed in the scheme instructions.

For NIL-Phys-1-2027, This activity falls outside the scope of Nil's accreditation to ISO/IEC 17043. Confirm the applicable accreditation status and provider-selection route before enrolment.

SOME USEFUL INFORMATION OF THE SCHEMES

*** How to participate in our PT schemes**

Method 1：

Log in to 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. BIAN Yuan
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.