



中国认可
能力验证
PROFICIENCY TESTING
CNAS PT0002



China NIL Research Center for Proficiency Testing

China NIL Proficiency Testing Schemes (2021)

As a professional PT provider, NIL has been accredited by China National Accreditation Service Conformity Assessment (CNAS), and all PT schemes provided by NIL are operated in compliance with ISO/IEC 17043:2010 “Conformity assessment—General requirements for proficiency testing”. The international proficiency testing schemes for 2021 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.....	6
Soil.....	6
Textile.....	7
RoHS.....	7
Plastic.....	8
Microstructure of metal Materials.....	9
Mechanical Properties for metal Materials(special for ISO standard).....	9
Mechanical Properties for Materials (Special for ASTM standard).....	12
Microstructure of metal Materials (Special for ASTM standard).....	13
Non-destructive Test for Metallic Material.....	13



中国认可
能力验证
PROFICIENCY TESTING
CNAS PT0002



China NIL Research Center for Proficiency Testing

Table 1 NIL Proficiency Testing Schemes for 2021

Metal and Alloy						
Serial No	Title	Test object	Test items	Registration deadline	Fees (USD)	Select
NILPT-2566-1	Determination of C, Si, Mn, P and S in Carbon and Low alloy steel	Carbon and Low alloy steel	C, Si, Mn, P, S	Apr., 2021	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2566-2	Determination of C, Si, Mn, P and S in Carbon and Low alloy steel	Carbon and Low alloy steel	C, Si, Mn, P, S	Jul., 2021	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2566-3	Determination of C, Si, Mn, P and S in Carbon and Low alloy steel	Carbon and Low alloy steel	C, Si, Mn, P, S	Sept., 2021	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2567-1	Determination of Cr, Ni, Cu, Mo and Al in Carbon and Low alloy steel	Carbon and Low alloy steel	Cr, Ni, Cu, Mo, Al	Apr., 2021	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2567-2	Determination of Cr, Ni, Cu, Mo and Al in Carbon and Low alloy steel	Carbon and Low alloy steel	Cr, Ni, Cu, Mo, Al	Jul., 2021	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2568-1	Determination of Cr, Ni, Cu, V and Ti in Carbon and Low alloy steel by inductively coupled plasma atomic emission spectrometry	Carbon and Low alloy steel	Cr, Ni, Cu, V, Ti	Apr., 2021	300+ carriage	<input type="checkbox"/> Chips
NILPT-2568-2	Determination of Cr, Ni, Cu, V and Ti in Carbon and Low alloy steel by inductively coupled plasma atomic emission spectrometry	Carbon and Low alloy steel	Cr, Ni, Cu, V, Ti	Jul., 2021	300+ carriage	<input type="checkbox"/> Chips
NILPT-2569-1	Determination of C, Si, Mn, P and S in Carbon and Low alloy steel by spark atomic emission spectrometry	Carbon and Low alloy steel	C, Si, Mn, P, S	Apr., 2021	350+ carriage	<input type="checkbox"/> Discs
NILPT-2569-2	Determination of C, Si, Mn, P and S in Carbon and Low alloy steel by spark atomic emission spectrometry	Carbon and Low alloy steel	C, Si, Mn, P, S	Jul., 2021	350+ carriage	<input type="checkbox"/> Discs
NILPT-2570-1	Determination of Cr, Ni, Cu, Mo and Al in Carbon and Low alloy steel by spark atomic emission spectrometry	Carbon and Low alloy steel	Cr, Ni, Cu, Mo, Al	Apr., 2021	350+ carriage	<input type="checkbox"/> Discs
NILPT-2570-2	Determination of Cr, Ni, Cu, Mo and Al in Carbon and Low alloy steel by spark atomic emission spectrometry	Carbon and Low alloy steel	Cr, Ni, Cu, Mo, Al	Jul., 2021	350+ carriage	<input type="checkbox"/> Discs



中国认可
能力验证
PROFICIENCY TESTING
CNAS PT0002



China NIL Research Center for Proficiency Testing

Serial No	Title	Test object	Test items	Registration deadline	Fees (USD)	Select
NILPT-2571-1	Determination of Si, Mn, P, Cr, Ni and Ti in stainless steel	Stainless steel	Si, Mn, P, Cr, Ni, Ti	Apr., 2021	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2571-2	Determination of Si, Mn, P, Cr, Ni and Ti in stainless steel	Stainless steel	Si, Mn, P, Cr, Ni, Ti	Aug., 2021	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2572-1	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., 2021	350+ carriage	<input type="checkbox"/> Discs
NILPT-2572-2	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., 2021	350+ carriage	<input type="checkbox"/> Discs
NILPT-2573	Determination of C, Si, Mn, P, S and Cr in Bearing steel	Bearing steel	C, Si, Mn, P, S, Cr	Jul., 2021	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2574	Determination of C, Si, P, S, Mo in Ferromolybdenum	Ferromolybdenum	C, Si, P, S, Mo	Aug., 2021	350+ carriage	<input type="checkbox"/> Chips
NILPT-2575-1	Determination of carbon and sulfur content in steel	Steel	C, S	Apr., 2021	280+ carriage	<input type="checkbox"/> Chips
NILPT-2575-2	Determination of carbon and sulfur content in steel	Steel	C, S	Jul., 2021	280 + carriage	<input type="checkbox"/> Chips
NILPT-2575-3	Determination of carbon and sulfur content in steel	Steel	C, S	Sept., 2021	280+ carriage	<input type="checkbox"/> Chips
NILPT-2576-1	Determination of oxygen and nitrogen content in steel	Steel	O, N	Jul., 2021	280 + carriage	<input type="checkbox"/>
NILPT-2576-2	Determination of oxygen and nitrogen content in steel	Steel	O, N	Sept., 2021	280+ carriage	<input type="checkbox"/>
NILPT-2577	Determination of hydrogen in steel	Steel	H	Sept., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2579	Determination of Mo, Al, Ti, Nb in High-Temperature Alloy	High-Temperature Alloy	Mo, Al, Ti, Nb	Aug., 2021	400 + carriage	<input type="checkbox"/> Chips
NILPT-2581	Determination of Si, Mn, P, Al and Ca in ferrosilicon	Ferrosilicon	Si, Mn, P, Al, Ca	Aug., 2021	300+ carriage	<input type="checkbox"/> Chips
NILPT-2582	Determination of C, Si, Mn and P in ferromanganese	Ferromanganese	C, Si, Mn, P	Aug., 2021	300 + carriage	<input type="checkbox"/> Chips
NILPT-2583	Determination of Si, Mn, P, Al, Ti in Ferrotitanium	Ferrotitanium	Si, Mn, P, Al, Ti	Aug., 2021	300 + carriage	<input type="checkbox"/> Chips
NILPT-2584	Determination of C, Si, Mn, P, S, Ni, Cr in ferronickel	Ferronickel	C, Si, Mn, P, S, Ni, Cr	Sept., 2021	300 + carriage	<input type="checkbox"/> Chips



中国认可
能力验证
PROFICIENCY TESTING
CNAS PT0002



China NIL Research Center for Proficiency Testing

Serial No	Title	Test object	Test items	Registration deadline	Fees (USD)	Select
NILPT-2585	Determination of C, Si, Mn, P and Cr in low-carbon ferrochromium	Low-carbon Ferrochromium	C, Si, Mn, P, Cr	Aug., 2021	300 + carriage	<input type="checkbox"/> Chips
NILPT-2586	Determination of Si, Mn, P and S in Silicon manganese alloy	Silicon manganese alloy	Si, Mn, P, S	Sept., 2021	300+ carriage	<input type="checkbox"/> Chips
NILPT-2588	Determination of Si, Fe, Cu, Mg and Zn in Pure Aluminum	Pure Aluminum	Si, Fe, Cu, Mg, Zn	Oct.,2021	320 + carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2589-1	Determination of Si, Fe, Cu, Mg and Mn in aluminum alloy	Aluminum alloy	Si, Fe, Cu, Mg, Mn	May., 2021	320+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2589-2	Determination of Si, Fe, Cu, Mg and Mn in aluminum alloy	Aluminum alloy	Si, Fe, Cu, Mg, Mn	Aug., 2021	320 + carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2590	Determination of Si, Fe, Cu, Mg, Mn, Cr, Ni, Ti, Zn in aluminum alloy by spark atomic emission spectrometry	Aluminum alloy	Si, Fe, Cu, Mg, Mn, Cr, Ni, Ti, Zn	Sept., 2021	320 + carriage	<input type="checkbox"/> Discs
NILPT-2591	Determination of Cu, Mg, Fe and Al in zinc alloy	Zinc alloy	Cu, Mg, Fe, Al	Sept., 2021	320 + carriage	<input type="checkbox"/> Chips
NILPT-2592	Determination of Sn, Fe, Ni, Al, Si in copper alloy	Copper alloy	Sn, Fe, Ni, Al, Si	Sept., 2021	320 + carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2595	Determination of Fe, Al, V and Si in titanium alloy	Titanium alloy	Fe, Al, V, Si	Jul.,2021	350 + carriage	<input type="checkbox"/> Chips
Mineral and Metallurgical Material						
Serial No	Title	Test object	Test items	Registration deadline	Fees (USD)	Select
NILPT-2604-1	Determination of TFe, SiO ₂ , P and S in iron ore	Iron ore	TFe, SiO ₂ , P, S	Apr., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2604-2	Determination of TFe, SiO ₂ , P and S in iron ore	Iron ore	TFe, SiO ₂ , P, S	Jul., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2605	Determination of CaO, MgO and Al ₂ O ₃ in iron ore	Iron ore	CaO, MgO, Al ₂ O ₃	May., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2606	Determination of TFe and FeO in iron ore	Iron ore	TFe, FeO	Jul., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2607	Determination of potassium and sodium in iron ore	Iron ore	K, Na	Jul., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2608	Determination of Ca, Si, Mn, Al, P, Mg and Ti in iron ore by X-ray fluorescence spectrometry	Iron ore	Ca, Si, Mn, Al, P, Mg, Ti	Jul., 2021	450 + carriage	<input type="checkbox"/>



中国认可
能力验证
PROFICIENCY TESTING
CNAS PT0002



China NIL Research Center for Proficiency Testing

Serial No	Title	Test object	Test items	Registration deadline	Fees (USD)	Select
NILPT-2610	Determination of TMn, TFe, SiO ₂ and Al ₂ O ₃ in manganese ore	Manganese ore	TMn, TFe, SiO ₂ , Al ₂ O ₃	Jul., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2611	Determination of CaF ₂ , SiO ₂ and TFe in fluorite	Fluorite	CaF ₂ , SiO ₂ , TFe	Jul., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2612-1	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., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2612-2	Determination of SiO ₂ , CaO, MgO, Fe ₂ O ₃ and Al ₂ O ₃ in limestone	Limestone	SiO ₂ , CaO, MgO, Fe ₂ O ₃ , Al ₂ O ₃	Jul., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2613	Determination of Ni, SiO ₂ , Fe and Mg in nickel ore	Nickel ore	Ni, SiO ₂ , Fe, Mg	Jul., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2614	Determination of Zn, Pb and Cu in zinc ore	Zinc ore	Zn, Pb, Cu	Jul., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2616	Determination of Zn,Cu,Pb and Cd in zinc concentrates	Zinc concentrates	Zn, Cu, Pb, Cd	Apr., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2617	Determination of Cu, S, Au and Ag in copper concentrates	Copper concentrates	Cu, S, Au ,Ag	Apr., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2618	Determination of Pb, Cu, Zn and As in lead concentrates	Lead concentrates	Pb, Cu, Zn, As	Apr., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2619	Determination of Cu, Pb, Zn and Fe in polymetallic ore	Polymetallic ore	Cu, Pb, Zn, Fe	Apr., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2621	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	Apr., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2622	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	Apr., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2623	Determination of gold and silver in ore	Ore	Au, Ag	Apr., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2624*	Determination of Fe, Al and Ca in metallurgical silicon	Metallurgical silicon	Fe, Al, Ca	Apr., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2625	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	May., 2021	300 + carriage	<input type="checkbox"/>



中国认可
能力验证
PROFICIENCY TESTING
CNAS PT0002



China NIL Research Center for Proficiency Testing

Coal and Coke						
Serial No	Title	Test object	Test items	Registration deadline	Fees (USD)	Select
NILPT-2628-1	Proximate analysis of coke	Coke	Sulphur,ash, volatile matter	Apr., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2628-2	Proximate analysis of coke	Coke	Sulphur,ash, volatile matter	Jul., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2629-1	Proximate analysis of coal	Coal	Sulphur,ash, volatile matter	Apr., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2629-2	Proximate analysis of coal	Coal	Sulphur,ash, volatile matter	Jul., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2630	Determination of calorific value of coal	Coal	calorific value	May., 2021	300 + carriage	<input type="checkbox"/>
Cement						
Serial No	Title	Test object	Test items	Registration deadline	Fees (USD)	Select
NILPT-2643	Determination of loss on ignition, magnesium oxide, Calcium oxide and sulfur trioxide in cement	Cement	Loss on ignition, MgO, CaO,SO ₃	May., 2021	450+ carriage	<input type="checkbox"/>
NILPT-2644	Determination of chloride ions in cement	Cement	Chloride ions	May., 2021	450+ carriage	<input type="checkbox"/>
Soil						
Serial No	Title	Test object	Test items	Registration deadline	Fees (USD)	Select
NILPT-2657-1	Determination of lead and cadmium in soil	Soil	Pb ,Cd	Mar., 2021	350 + carriage	<input type="checkbox"/>
NILPT-2657-2	Determination of lead and cadmium content in soil	Soil	Pb ,Cd	Sept., 2021	350 + carriage	<input type="checkbox"/>
NILPT-2658-1	Determination of nickel, copper, zinc content in soil	Soil	Ni,Cu,Zn	Mar., 2021	350 + carriage	<input type="checkbox"/>
NILPT-2658-2	Determination of nickel, copper, zinc content in soil	Soil	Ni,Cu,Zn	Sept., 2021	350 + carriage	<input type="checkbox"/>
NILPT-2659-1	Determination of total mercury and total arsenic in soil	Soil	Total Hg, Total As	Mar., 2021	350 + carriage	<input type="checkbox"/>
NILPT-2659-2	Determination of total mercury and total arsenic in soil	Soil	Total Hg ,Total As	Sept., 2021	350 + carriage	<input type="checkbox"/>
NILPT-2660-1	Determination of total chromium content in soil	Soil	Total Cr	Mar., 2021	350 + carriage	<input type="checkbox"/>
NILPT-2660-2	Determination of total chromium content in soil	Soil	Total Cr	Sept., 2021	350 + carriage	<input type="checkbox"/>



中国认可
能力验证
PROFICIENCY TESTING
CNAS PT0002



China NIL Research Center for Proficiency Testing

Serial No	Title	Test object	Test items	Registration deadline	Fees (USD)	Select
NILPT-2661-1	Determination of total phosphorus in soil	Soil	Total P	Mar., 2021	350 + carriage	<input type="checkbox"/>
NILPT-2661-2	Determination of total phosphorus in soil	Soil	Total P	Sept., 2021	350 + carriage	<input type="checkbox"/>
NILPT-2662	Determination of total potassium in soil	Soil	Total K	Sept., 2021	350 + carriage	<input type="checkbox"/>
NILPT-2663	Determination of total nitrogen in soil	Soil	Total N	Sept., 2021	350 + carriage	<input type="checkbox"/>
NILPT-2665-1	Determination of pH in soil	Soil	pH at 25 °C	Mar., 2021	350 + carriage	<input type="checkbox"/>
NILPT-2665-2	Determination of pH in soil	Soil	pH at 25 °C	Sept., 2021	350 + carriage	<input type="checkbox"/>
Textile						
Serial No	Title	Test object	Test items	Registration deadline	Fees (USD)	Select
NILPT-2862	Determination of maximum force for textiles	Textile	Maximum force(strip method)	Jul., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2863	Determination of tear force using ballistic pendulum method for textiles	Textile	Tear force(ballistic pendulum method)	Jul., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2867	Determination of pH in textile	Textile	pH	Jul., 2021	300 + carriage	<input type="checkbox"/>
NILPT-2868	Determination of formaldehyde in textile (water extraction method)	Textile	Formaldehyde	Aug., 2021	300 + carriage	<input type="checkbox"/>
RoHS						
Serial No	Title	Test object	Test items	Registration deadline	Fees (USD)	Select
NILPT-2877	Restricted substances in electronic and electrical products – Determination of Pb content in copper and copper alloys	Electronic and electrical products – copper and copper alloys	Pb	Jun., 2021	320 + carriage	<input type="checkbox"/>



中国认可
能力验证
PROFICIENCY TESTING
CNAS PT0002



China NIL Research Center for Proficiency Testing

Serial No	Title	Test object	Test items	Registration deadline	Fees (USD)	Select
NILPT-2878	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	Jun., 2021	320 + carriage	<input type="checkbox"/>
NILPT-2879	Restricted substances in electronic and electrical products – Determination of Pb and Cd content in zinc and zinc alloys	Electronic and electrical products – zinc and zinc alloys	Pb, Cd	Jun., 2021	320 + carriage	<input type="checkbox"/>
NILPT-2880	Restricted substances in electronic and electrical products – Determination of noxious substance content in ABS	Electronic and electrical products – ABS	Pb, Cd, Hg, Br	Jul., 2021	400 + carriage	<input type="checkbox"/>
NILPT-2882	Restricted substances in electronic and electrical products – Determination of flame retardant content in plastic	Electronic and electrical products – plastic	BDE-209	Jul., 2021	400 + carriage	<input type="checkbox"/>
Plastic						
Serial No	Title	Test object	Test items	Registration deadline	Fees (USD)	Select
NILPT-3025	Determination of phthalate plasticizers in plastic toy	Plastic toy materials	DBP, DEHP, BBP, DINP, DIDP, DNOP	Aug., 2021	450 + carriage	<input type="checkbox"/>
NILPT-2883	Determination of the melt mass-flow rate (MFR) of thermoplastics(ISO 1133-1)	Plastics	MFR	Aug.2021	450 + carriage	<input type="checkbox"/>
NILPT-2886	Determination of vicat softening temperature of plastics (ISO 306)	Plastics	vicat softening temperature	Aug. 2021	550+ carriage	<input type="checkbox"/>
NILPT-2890	Determination of density of plastic (ISO 1183-1,method A-Immersion method)	Plastics	Density	Aug. 2021	450+ carriage	<input type="checkbox"/>
NILPT-2891	Determination of charpy impact properties of plastic (ISO 179-1)	Plastics	Charpy notched impact strength	Aug. 2021	550+ carriage	<input type="checkbox"/>
NILPT-2892	Determination of tensile properties of plastic (ISO 527-1/-2)	Plastics	stress at yield, strength, stress at 5% strain, strain at yield	Aug. 2021	550+ carriage	<input type="checkbox"/>



中国认可
能力验证
PROFICIENCY TESTING
CNAS PT0002



China NIL Research Center for Proficiency Testing

Microstructure of metal Materials						
Serial No	Title	Test object	Test items	Registration deadline	Fees (USD)	Select
NILPT-2908-1	Determination of average grain size in metallic materials(only for Intercept Procedure)	Steel(Photo)	Grain size number	May. 2021	300+ carriage	<input type="checkbox"/>
NILPT-2908-2	Determination of average grain size in metallic materials(only for Intercept Procedure)	Steel(Material object)	Grain size number	Sep. 2021	400+ carriage	<input type="checkbox"/>
NILPT-2913	Determination of depth of decarburization of steels	Steel	Depth of total decarburization, Depth of complete decarburization	Aug. 2021	400+ carriage	<input type="checkbox"/>
NILPT-2910	Determination of average grain size in aluminium alloy(only for Intercept Procedure)	Aluminium alloy(Photo)	Grain size number	Aug. 2021	300+ carriage	<input type="checkbox"/>
Mechanical Properties for metal Materials(special for ISO standard)						
Serial No	Title	Test object	Test items	Registration deadline	Fees (USD)	Select
NILPT-2936-1	Brinell hardness test for metallic materials(only for ISO 6506-1)	Steel	HBW 2.5/187.5	Jun. 2021	450+ carriage	<input type="checkbox"/>
NILPT-2936-2	Brinell hardness test for metallic materials(only for ISO 6506-1)	Steel	HBW 2.5/187.5	Oct. 2021	450+ carriage	<input type="checkbox"/>
NILPT-2937-1	Brinell hardness test for metallic materials(only for ISO 6506-1)	Steel	HBW 5/750	May.2021	450+ carriage	<input type="checkbox"/>
NILPT-2937-2	Brinell hardness test for metallic materials(only for ISO 6506-1)	Steel	HBW 5/750	Sep.2021	450+ carriage	<input type="checkbox"/>
NILPT-2938-1	Brinell hardness test for metallic materials(only for ISO 6506-1)	Steel	HBW 10/3000	May.2021	450+ carriage	<input type="checkbox"/>
NILPT-2938-2	Brinell hardness test for metallic materials(only for ISO 6506-1)	Steel	HBW 10/3000	Sep. 2021	450+ carriage	<input type="checkbox"/>
NILPT-2939	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Steel	HRA	May.2021	450+ carriage	<input type="checkbox"/>
NILPT-2940-1	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Steel	HRB	May.2021	450+ carriage	<input type="checkbox"/>
NILPT-2940-2	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Steel	HRB	Sep.2021	450+ carriage	<input type="checkbox"/>



中国认可
能力验证
PROFICIENCY TESTING
CNAS PT0002



China NIL Research Center for Proficiency Testing

NILPT-2941-1	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Steel	HRC	May.2021	450+ carriage	<input type="checkbox"/>
NILPT-2941-2	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Steel	HRC	Jul.2021	450+ carriage	<input type="checkbox"/>
NILPT-2941-3	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Steel	HRC	Oct.2021	450+ carriage	<input type="checkbox"/>
NILPT-2942	Vickers hardness test for metallic materials (only for ISO 6507-1)	Steel	HV0.2	Oct.2021	500+ carriage	<input type="checkbox"/>
NILPT-2943	Vickers hardness test for metallic materials (only for ISO 6507-1)	Steel	HV5	Sep.2021	450+ carriage	<input type="checkbox"/>
NILPT-2944-1	Vickers hardness test for metallic materials (only for ISO 6507-1)	Steel	HV10	May.2021	450+ carriage	<input type="checkbox"/>
NILPT-2944-2	Vickers hardness test for metallic materials (only for ISO 6507-1)	Steel	HV10	Sep. 2021	450+ carriage	<input type="checkbox"/>
NILPT-2946-1	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. 2021	600+ carriage	<input type="checkbox"/>
NILPT-2946-2	Room temperature tensile test for metallic materials (Recommended testing machine: 100kN~300kN. Diameter of sample: Φ10mm, M16 normal screw threaded both ends. Matched chucking heads are required. only for ISO 6892-1)	Steel	$R_{m}, R_{eL}, A, Z, R_{p0.2}$	Oct. 2021	600+ carriage	<input type="checkbox"/>
NILPT-2947	Room 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. only for ISO 6892-1)	Steel	$R_{m}, R_{eL}, A, Z, R_{p0.2}$	Jun. 2021	600+ carriage	<input type="checkbox"/>



中国认可
能力验证
PROFICIENCY TESTING
CNAS PT0002



China NIL Research Center for Proficiency Testing

NILPT-2948	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	$R_m, R_{eL}, A, Z, R_{p0.2}$	Jun. 2021	600+ carriage	<input type="checkbox"/>
NILPT-2949	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	$R_m, R_{eL}, A, Z, R_{p0.2}$	Sept. 2021	600+ carriage	<input type="checkbox"/>
NILPT-2651-1	Room temperature tensile test for hot rolled ribbed steel bars (Recommended testing machine: 300kN~1000kN. Sample length:350mm. only for ISO 6892-1)	Hot rolled ribbed steel bars	$R_m, R_{eL}, A,$	Apr. 2021	550+ carriage	<input type="checkbox"/>
NILPT-2651-2	Room temperature tensile test for hot rolled ribbed steel bars (Recommended testing machine: 300kN~1000kN. Only for ISO 6892-1)	Hot rolled ribbed steel bars	$R_m, R_{eL}, A,$	Sept. 2021	550+ carriage	<input type="checkbox"/> Sample length:350 mm <input type="checkbox"/> Sample length:600 mm
NILPT-2950	Room temperature tensile test for cold-rolled plate of metallic materials (Recommended testing machine: 20kN~50kN. only for ISO 6892-1)	Steel-coldrolled plate	$R_m, A, R_{p0.2}$	Jun. 2021	550+ carriage	<input type="checkbox"/>
NILPT-2951	Room temperature tensile test for hot-rolled plate of metallic materials (Recommended testing machine: 100kN~300kN. only for ISO 6892-1)	Steel-hot rolled plate	$R_m, R_{eL}, A, R_{p0.2}$	May. 2021	550+ carriage	<input type="checkbox"/>
NILPT-2952	Room temperature tensile test for hot-rolled plate of metallic materials (Recommended testing machine: 300kN~600kN. only for ISO 6892-1)	Steel-hot rolled plate	$R_m, R_{eL}, A, R_{p0.2}$	Sept. 2021	550+ carriage	<input type="checkbox"/>



中国认可
能力验证
PROFICIENCY TESTING
CNAS PT0002



China NIL Research Center for Proficiency Testing

NILPT-2953	Elevated temperature tensile test for metallic materials (Recommended testing machine: 20kN~50kN. Diameter of sample: $\Phi 5\text{mm}$, M10 or M12 normal screw threaded both ends. Matched chucking heads are required. Temperature: $\geq 300^\circ\text{C}$. only for ISO 6892-2)	Steel	$R_m, A, Z, R_{p0.2}$	Jun. 2021	600+ carriage	<input type="checkbox"/>
NILPT-2959	Room temperature tensile test for aluminum alloy sheet (Recommended testing machine: 20kN~50kN. only for ISO 6892-1)	Aluminum alloy	$R_m, A, R_{p0.2}$	Jul. 2021	550+ carriage	<input type="checkbox"/>
NILPT-2962-1	Charpy impact test for metallic materials (Striker R=2mm. Recommended testing machine: $\geq 300\text{J}$. only for ISO 148-1)	Steel	Impact Absorbed Energy KU_2	Apr. 2021	500+ carriage	<input type="checkbox"/>
NILPT-2962-2	Charpy impact test for metallic materials (Striker R=2mm. Recommended testing machine: $\geq 300\text{J}$. only for ISO 148-1)	Steel	Impact Absorbed Energy KU_2	Oct. 2021	500+ carriage	<input type="checkbox"/>
NILPT-2963	Charpy impact test for metallic materials (Striker R=2mm. Recommended testing machine: $\geq 150\text{J}$. only for ISO 148-1)	Steel	Impact Absorbed Energy KU_2	Jun. 2021	500+ carriage	<input type="checkbox"/>
NILPT-2964	Low-temperature Charpy impact test for metallic materials (Striker R=2mm. Recommended testing machine: $\geq 150\text{J}$. only for ISO 148-1)	Steel	Impact Absorbed Energy KU_2	Sept. 2021	500+ carriage	<input type="checkbox"/>
NILPT-2965	Charpy impact test for metallic materials (Striker R=2mm. V notch. Recommended testing machine: $\geq 150\text{J}$. only for ISO 148-1)	Steel	Impact Absorbed Energy KV_2	Jul. 2021	500+ carriage	<input type="checkbox"/>
Mechanical Properties for Materials (Special for ASTM standard)						
Serial No	Title	Test object	Test items	Registration deadline	Fees (USD)	Select
NILPT-2972	Room temperature tensile test for metallic materials (Recommended testing machine:	Steel	tensile strength , lower yield	Sept. 2021	650+ carriage	<input type="checkbox"/>



中国认可
能力验证
PROFICIENCY TESTING
CNAS PT0002



China NIL Research Center for Proficiency Testing

	100kN~300kN. Diameter of sample: Φ 12.5mm. onlyfor ASTM E8/E8M)		strength, elongation after fracture, reduction of area			
NILPT-2973	Elevated temperature tensile test for metallic material (Recommended testing machine: 20kN~50kN. Diameter of sample: Φ 6mm, M12 normal screw threaded both ends. Matched chucking heads are required. Temperature: $\geq 300^{\circ}\text{C}$. onlyfor ASTM E21)	Steel	tensile strength, yield strength (offset =0.2%), elongation after fracture, reduction of area	Sept. 2021	650+ carriage	<input type="checkbox"/>
NILPT-2974	Charpy impact test for metallic materials (Striker R=8mm. V notch. Recommended testing machine: $\geq 150\text{J}$. onlyforASTM E23)	Steel	Impact Absorbed Energy	Sept. 2021	550+ carriage	<input type="checkbox"/>
NILPT-2975	Brinell hardness test for metallic materials(for ASTM E10)	Steel	HBW 10/3000	Oct.2021	550+ carriage	<input type="checkbox"/>
NILPT-2976	Rockwell hardness test for metallic materials(for ASTM E18)	Steel	HRC	Oct.2021	550+ carriage	<input type="checkbox"/>
NILPT-2977	Vickers hardness test for metallic materials(for ASTM E92)	Steel	HV10	Oct.2021	600+ carriage	<input type="checkbox"/>
Microstructure of metal Materials (Special for ASTM standard)						
Serial No	Title	Test object	Test items	Registration deadline	Fees (USD)	Select
NILPT-2978	Determination of average grain size in metallic materials (Recommendation for Intercept Procedure. for ASTM E112)	Steel(Material object)	Grain size number	Sep. 2021	450+ carriage	<input type="checkbox"/>
Non-destructive Test for Metallic Material						
Serial No	Title	Test object	Test items	Registration deadline	Fees (USD)	Select
NILPT-2987	Non-destructive tesiting of welds (Ultrasonic testing)	Steel Plate	Location of indication, length of indication	Jul. 2021	500+ carriage	<input type="checkbox"/>



中国认可
能力验证
PROFICIENCY TESTING
CNAS PT0002



China NIL Research Center for Proficiency Testing

*Note: For NIL PT-2566-1, NIL PT-2566-2, NIL PT-2566-3, NIL PT-2567-1, NIL PT-2567-2, NIL PT-2571-1, NIL PT-2571-2, NIL PT-2573, NIL PT-2588, NIL PT-2589-1, NIL PT-2589-2, NIL PT-2592, 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.



China NIL Research Center for Proficiency Testing

SOME USEFUL INFORMATION OF THE SCHEMES

* How to participate our PT schemes

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

Information of Laboratory

Name of Laboratory:

Postal Address & Zip Code:

Contact Person: Country:

E-mail:

Tel:Fax:

China NIL Research Center for Proficiency Testing

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

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

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

E-mail: nil@analysis.org.cn

Website: <http://english.nil.org.cn>

* Test samples (or specimens)

After NIL receives the orders and payments from the participants, test samples will be distributed along with “INSTRUCTIONS TO PARTICIPANTS”, “RESULT SHEET” and “ATC code” to the laboratories participating in the scheme. Some of the samples are prepared and tested for homogeneity by the Standard Material Research Center of CISRI (Central Iron & Steel Research Institute).

* Testing method

The samples will be tested by the participant's preferred methods, which are generally used for providing formal reports. However, it is preferable to use international or national consensus standard methods. If a standard method is used, please provide its title name and serial number.

* Registration fees

Registration fees should be paid as soon as the laboratory receives invoice from NIL. An invoice will be forwarded to the participating laboratory together with the samples.