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China NIL Research Center for Proficiency Testing

China NIL Proficiency Testing Schemes (2020)

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 2020 are listed in the following Table 1.

Catalogue

Chemical analysis for metal and alloy	2
Mineral and Metallurgical Material	4
Coal and Coke	5
Cement	6
Soil	6
Textile	7
RoHS	7
Plastic	8
Microstructure of metal Materials	9
Mechanical Properties for metal Materials(special for ISO standard)	10
Mechanical Properties for Materials (Special for ASTM standard)	13
Non-destructive Test for Metallic Material	14



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 2020

Metal and Alloy						
Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NILPT-2153-1	Determination of C, Si, Mn, P and S in low and middle alloy steel	Low and middle alloy steel	C, Si, Mn, P, S	Mar.~Jul., 2020	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2153-2	Determination of C, Si, Mn, P and S in low and middle alloy steel	Low and middle alloy steel	C, Si, Mn, P, S	Jul.~ Sep., 2020	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2153-3	Determination of C, Si, Mn, P and S in low and middle alloy steel	Low and middle alloy steel	C, Si, Mn, P, S	Sep.~Dec., 2020	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2154-1	Determination of Cr, Ni, Cu, Mo and Al in low and middle alloy steel	Low and middle alloy steel	Cr, Ni, Cu, Mo, Al	Mar.~ Jul., 2020	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2154-2	Determination of Cr, Ni, Cu, Mo, Al in low and middle alloy steel	Low and middle alloy steel	Cr, Ni, Cu, Mo, Al	Jul.~ Dec., 2020	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2155-1	Determination of Cr, Ni, Cu, V and Ti in low and middle alloy steel by inductively coupled plasma atomic emission spectrometry	Low and middle alloy steel	Cr, Ni, Cu, V, Ti	Mar.~ Jul., 2020	300+ carriage	<input type="checkbox"/> Chips
NILPT-2155-2	Determination of Cr, Ni, Cu, V and Ti in low and middle alloy steel by inductively coupled plasma atomic emission spectrometry	Low and middle alloy steel	Cr, Ni, Cu, V, Ti	Jul.~ Dec., 2020	300+ carriage	<input type="checkbox"/> Chips
NILPT-2156-1	Determination of C, Si, Mn, P and S in low and middle alloy steel by spark atomic emission spectrometry	Low and middle alloy steel	C, Si, Mn, P, S	Mar.~ Jul., 2020	350+ carriage	<input type="checkbox"/> Discs
NILPT-2156-2	Determination of C, Si, Mn, P and S in low and middle alloy steel by spark atomic emission spectrometry	Low and middle alloy steel	C, Si, Mn, P, S	Jul.~ Dec., 2020	350+ carriage	<input type="checkbox"/> Discs
NILPT-2157-1	Determination of Cr, Ni, Cu, Mo and Al in low and middle alloy steel by spark atomic emission spectrometry	Low and middle alloy steel	Cr, Ni, Cu, Mo, Al	Mar.~ Jul., 2020	350+ carriage	<input type="checkbox"/> Discs
NILPT-2157-2	Determination of Cr, Ni, Cu, Mo and Al in low and middle alloy steel by spark atomic emission spectrometry	Low and middle alloy steel	Cr, Ni, Cu, Mo, Al	Jul.~ Dec., 2020	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	Schedule	Fees (USD)	Select
NILPT-2158-1	Determination of Si, Mn, P, Cr, Ni and Ti in stainless steel	Stainless steel	Si, Mn, P, Cr, Ni, Ti	Mar.~ Jul., 2020	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2158-2	Determination of Si, Mn, P, Cr, Ni and Ti in stainless steel	Stainless steel	Si, Mn, P, Cr, Ni, Ti	Jul.~ Dec., 2020	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2159-1	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	Mar.~ Jul., 2020	350+ carriage	<input type="checkbox"/> Discs
NILPT-2159-2	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	Jul.~ Dec., 2020	350+ carriage	<input type="checkbox"/> Discs
NILPT-2160	Determination of C, Si, Mn, P, S and Cr in Bearing steel	Bearing steel	C, Si, Mn, P, S, Cr	Jul.~ Dec., 2020	350+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2161	Determination of Mo, C, Si, P, S in Ferromolybdenum	Ferromolybdenum	Mo, C, Si, P, S	Jul.~ Dec., 2020	350+ carriage	<input type="checkbox"/> Chips
NILPT-2162-1	Determination of carbon and sulfur content in steel	Steel	C, S	Mar.~ Jul., 2020	280+ carriage	<input type="checkbox"/> Chips
NILPT-2162-2	Determination of carbon and sulfur content in steel	Steel	C, S	Jul.~ Sep., 2020	280 + carriage	<input type="checkbox"/> Chips
NILPT-2162-3	Determination of carbon and sulfur content in steel	Steel	C, S	Sep.~Dec., 2020	280+ carriage	<input type="checkbox"/> Chips
NILPT-2163-1	Determination of oxygen and nitrogen content in steel	Steel	O, N	Mar.~ Jul., 2020	280 + carriage	<input type="checkbox"/>
NILPT-2163-2	Determination of oxygen and nitrogen content in steel	Steel	O, N	Jul.~ Dec., 2020	280+ carriage	<input type="checkbox"/>
NILPT-2164	Determination of hydrogen in steel	Steel	H	Jul.~ Dec., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2549	Determination of Mo, Al, Ti, Nb in superalloy	Superalloy	Mo, Al, Ti, Nb	Jul.~ Dec., 2020	400 + carriage	<input type="checkbox"/> Chips
NILPT-2167	Determination of Si, Mn, P, Al and Ca in ferrosilicium alloy	Ferrosilicium alloy	Si, Mn, P, Al, Ca	Jul.~ Dec., 2020	300+ carriage	<input type="checkbox"/> Chips
NILPT-2168	Determination of C, Si, Mn and P in ferromanganese alloy	Ferromanganese alloy	C, Si, Mn, P	Jul.~ Dec., 2020	300 + carriage	<input type="checkbox"/> Chips
NILPT-2169	Determination of Si, Mn, P, Al, Ti in Ferrotitanium	Ferrotitanium	Si, Mn, P, Al, Ti	Jul.~ Dec., 2020	300 + carriage	<input type="checkbox"/> Chips
NILPT-2170	Determination of C, Si, Mn, P, S, Ni, Cr in ferronickel	Ferronickel	C, Si, Mn, P, S, Ni, Cr	Jul.~ Dec., 2020	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

NILPT-2171	Determination of C, Si, Mn, P and Cr in low-carbon ferrochromium	Low-carbon Ferrochromium	C, Si, Mn, P, Cr	Jul.~ Dec., 2020	300 + carriage	<input type="checkbox"/> Chips
NILPT-2172	Determination of Si, Mn, P and S in Si-Mn alloy	Silicon Manganese alloy	Si, Mn, P, S	Jul.~ Dec., 2020	300+ carriage	<input type="checkbox"/> Chips
NILPT-2174	Determination of Si, Fe, Cu, Mg and Zn in pure aluminum	Pure aluminum	Si, Fe, Cu, Mg, Zn	Apr.~ Oct., 2020	320 + carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2175-1	Determination of Si, Fe, Cu, Mg and Mn in aluminium alloy	Aluminium alloy	Si, Fe, Cu, Mg, Mn	Mar.~ Jul., 2020	320+ carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2175-2	Determination of Si, Fe, Cu, Mg and Mn in aluminium alloy	Aluminium alloy	Si, Fe, Cu, Mg, Mn	Jul.~ Dec., 2020	320 + carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2176	Determination of Zn, Si, Cr, Ti, Pb, Cu in aluminium alloy by spark atomic emission spectrometry	Aluminium alloy	Zn, Si, Cr, Ti, Pb, Cu	Jul.~ Dec., 2020	320 + carriage	<input type="checkbox"/> Discs
NILPT-2177	Determination of Cu, Mg, Fe and Al in zinc alloy	Zinc alloy	Cu, Mg, Fe, Al	Jul.~ Dec., 2020	320 + carriage	<input type="checkbox"/> Chips
NILPT-2178	Determination of Sn, Fe, Ni, Al, Si in copper alloy	Copper alloy	Sn, Fe, Ni, Al, Si	Jul.~ Dec., 2020	320 + carriage	<input type="checkbox"/> Discs <input type="checkbox"/> Chips
NILPT-2180	Determination of Fe, Al, V and Si in titanium alloy	Titanium alloy	Fe, Al, V, Si	Jul.~ Dec., 2020	350 + carriage	<input type="checkbox"/> Chips
Mineral and Metallurgical Material						
Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NILPT-2188-1	Determination of TFe, SiO ₂ , P and S in iron ore	Iron ore	TFe, SiO ₂ , P, S	Mar.~ Jul., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2188-2	Determination of TFe, SiO ₂ , P and S in iron ore	Iron ore	TFe, SiO ₂ , P, S	Jul.~ Dec., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2189	Determination of CaO, MgO and Al ₂ O ₃ in iron ore	Iron ore	CaO, MgO, Al ₂ O ₃	Apr.~Oct., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2190	Determination of TFe and FeO in iron ore	Iron ore	TFe, FeO	Jul.~ Dec., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2191	Determination of potassium and sodium in iron ore	Iron ore	K, Na	Jul.~ Dec., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2192	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.~ Dec., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2193	Determination of CaF ₂ , SiO ₂ and TFe in fluorite	Fluorite	CaF ₂ , SiO ₂ , TFe	Jul.~ Dec., 2020	300 + 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	Schedule	Fees (USD)	Select
NILPT-2194-1	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	Mar.~ Jul., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2194-2	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.~ Dec., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2195	Determination of Ni, SiO ₂ , Fe and Mg in nickel ore	Nickel ore	Ni, SiO ₂ , Fe, Mg	Jul.~ Dec., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2196	Determination of Zn, Pb and Cu in zinc ore	Zinc ore	Zn, Pb, Cu	Jul.~ Dec., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2198	Determination of Zn,Cu,Pb and Fe in zinc concentrates	Zinc concentrates	Zn, Cu, Pb, Fe	Apr.~ Oct., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2199	Determination of Cu, S, Au and Ag in copper concentrates	Copper concentrates	Cu, S, Au ,Ag	Apr.~ Oct., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2200	Determination of Pb, Cu, Zn and As in lead concentrates	Lead concentrates	Pb, Cu, Zn, As	Apr.~ Oct., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2201	Determination of Cu, Pb, Zn and SiO ₂ in polymetallic-ore	Polymetallic ore	Cu, Pb, Zn, SiO ₂	Jul.~ Dec., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2203	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.~ Oct., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2204	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.~ Oct., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2205	Determination of gold and silver in ore	Ore	Au, Ag	Apr.~ Oct., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2206*	Determination of Fe, Al and Ca in metallurgical silicon	Metallurgical silicon	Fe, Al, Ca	Jul.~ Dec., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2207	Determination of SiO ₂ , CaO, MgO, Al ₂ O ₃ and Fe ₂ O ₃ in high-alumina refractories	High-alumina refractories	SiO ₂ , CaO,MgO, Al ₂ O ₃ ,Fe ₂ O ₃	Jul.~ Dec., 2020	300 + carriage	<input type="checkbox"/>
Coal and Coke						
Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NILPT-2210-1	Proximate analysis of coke	Coke	Sulphur,ash, volatile matter	Mar.~ Jul., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2210-2	Proximate analysis of coke	Coke	Sulphur,ash, volatile matter	Jul.~ Dec., 2020	300 + 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	Schedule	Fees (USD)	Select
NILPT-2211-1	Proximate analysis of coal	Coal	Sulphur,ash, volatile matter	Mar.~ Jul., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2211-2	Proximate analysis of coal	Coal	Sulphur,ash, volatile matter	Jul.~ Dec., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2212	Determination of calorific value of coal	Coal	calorific value	Jul.~ Dec., 2020	300 + carriage	
Cement						
Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NILPT-2225*	Determination of loss on ignition, magnesium oxide and sulfur trioxide in cement	Cement	Loss on ignition, MgO, SO ₃	Apr.~ Oct., 2020	450+ carriage	<input type="checkbox"/>
NILPT-2226*	Determination of SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , CaO in cement	Cement	SiO ₂ , Al ₂ O ₃ , Fe ₂ O ₃ , CaO	Apr.~ Oct., 2020	450+ carriage	<input type="checkbox"/>
NILPT-2227*	Determination of chloride ions in cement	Cement	Chloride ions	Apr.~ Oct., 2020	450+ carriage	<input type="checkbox"/>
Soil						
Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NILPT-2233-1	Determination of lead and cadmium in soil	Soil	Pb ,Cd	Mar.~ Jul., 2020	350 + carriage	<input type="checkbox"/>
NILPT-2233-2	Determination of lead and cadmium content in soil	Soil	Pb ,Cd	Jul.~ Dec., 2020	350 + carriage	<input type="checkbox"/>
NILPT-2234-1	Determination of nickel,copper,zinc content in soil	Soil	Ni,Cu,Zn	Mar.~ Jul., 2020	350 + carriage	<input type="checkbox"/>
NILPT-2234-2	Determination of nickel,copper,zinc content in soil	Soil	Ni,Cu,Zn	Jul.~ Dec., 2020	350 + carriage	<input type="checkbox"/>
NILPT-2235-1	Determination of total mercury and total arsenic in soil	Soil	Total Hg ,Total As	Mar.~ Jul., 2020	350 + carriage	<input type="checkbox"/>
NILPT-2235-2	Determination of total mercury and total arsenic in soil	Soil	Total Hg ,Total As	Jul.~ Dec., 2020	350 + carriage	<input type="checkbox"/>
NILPT-2236-1	Determination of total chromium content in soil	Soil	Total Cr	Mar.~ Jul., 2020	350 + carriage	<input type="checkbox"/>
NILPT-2236-2	Determination of total chromium content in soil	Soil	Total Cr	Jul.~ Dec., 2020	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	Schedule	Fees (USD)	Select
NILPT-2237-1	Determination of total phosphorus in soil	Soil	Total P	Mar.~ Aug, 2020	350 + carriage	<input type="checkbox"/>
NILPT-2237-2	Determination of total phosphorus in soil	Soil	Total P	Jul.~ Dec., 2020	350 + carriage	<input type="checkbox"/>
NILPT-2238	Determination of total potassium in soil	Soil	Total K	Jul.~ Dec., 2020	350 + carriage	<input type="checkbox"/>
NILPT-2239	Determination of total nitrogen in soil	Soil	Total N	Jul.~ Dec., 2020	350 + carriage	<input type="checkbox"/>
NILPT-2241-1	Determination of pH in soil	Soil	pH at 25 °C	Mar.~ Aug, 2020	350 + carriage	<input type="checkbox"/>
NILPT-2241-2	Determination of pH in soil	Soil	pH at 25 °C	Jul.~ Dec., 2020	350 + carriage	<input type="checkbox"/>
NILPT-2248	Determination of Ni,Cu,Zn content in solid waste	Solid waste	Ni,Cu,Zn	Jul.~ Dec., 2020	350 + carriage	<input type="checkbox"/>
Textile						
Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NILPT-2411	Determination of maximum force for textiles	Textile	Maximum force(strip method)	Apr.~Oct., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2412	Determination of tear force using ballistic pendulum method for textiles	Textile	Tear force(ballistic pendulum method)	Apr.~Oct., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2416	Determination of pH in textile	Textile	pH	Apr.~Oct., 2020	300 + carriage	<input type="checkbox"/>
NILPT-2417	Determination of formaldehyde in textile (water extraction method)	Textile	Formaldehyde	Jul.~ Dec., 2020	300 + carriage	<input type="checkbox"/>
RoHS						
Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NILPT-2419	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	Apr.~Oct., 2020	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	Schedule	Fees (USD)	Select
NILPT-2420	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	Apr.~Oct., 2020	320 + carriage	<input type="checkbox"/>
NILPT-2421	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	Apr.~Oct., 2020	320 + carriage	<input type="checkbox"/>
NILPT-2422	Restricted substances in electronic and electrical products – Determination of noxious substance content in ABS	Electronic and electrical products – ABS	Pb, Cd, Hg, Br	Apr.~Oct., 2020	400 + carriage	<input type="checkbox"/>
NILPT-2424	Restricted substances in electronic and electrical products – Determination of flame retardant content in plastic	Electronic and electrical products – plastic	BDE-209	Apr.~Oct., 2020	400 + carriage	<input type="checkbox"/>
Plastic						
Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NILPT-2425	Determination of phthalate plasticizers in plastic toy	Plastic toy	DBP, DEHP, BBP, DINP, DIDP, DNOP	Jul.~ Dec., 2020	450 + carriage	<input type="checkbox"/>
NILPT-2426*	Determination of polycyclic aromatic hydrocarbons in plastic	Plastic	Polycyclic aromatic hydrocarbons	Jul.~ Dec., 2020	450 + carriage	<input type="checkbox"/>
NILPT-2427	Determination of the melt mass-flow rate (MFR) of thermoplastics(ISO 1133-1)	Plastic	MFR	Jul.~ Dec., 2020	450 + carriage	<input type="checkbox"/>
NILPT-2428	Determination of burning behaviour of plastics by oxygen index (ISO 4589-2)	Plastics	oxygen index	Jul.~ Dec., 2020	550+ carriage	<input type="checkbox"/>
NILPT-2430	Determination of vicat softening temperature of plastics (ISO 306)	Plastics	vicat softening temperature	Jul.~ Dec., 2020	550+ carriage	<input type="checkbox"/>
NIL PT-2434	Determination of density of plastic (ISO 1183-1,method A-Immersion method)	Plastics	Density	Jul.~ Dec., 2020	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	Schedule	Fees (USD)	Select
NIL PT-2435	Determination of Charpy impact properties of plastic (ISO 179-1)	Plastics	Charpy notched impact strength	Jul.~ Dec., 2020	550+ carriage	<input type="checkbox"/>
NIL PT-2436	Determination of tensile properties of plastic (ISO 527-1/-2)	Plastics	Stress at yield, strength, stress at 5% strain, strain at yield	Jul.~ Dec., 2020	550+ carriage	<input type="checkbox"/>
NIL PT-2438	Determination of Izod impact strength of plastic (ISO 180)	Plastics	Izod impact strength	Jul.~ Dec., 2020	550+ carriage	<input type="checkbox"/>
NIL PT-2439	Determination of shore hardness of plastics(ISO 868)	Plastics	Shore hardness	Jul.~ Dec., 2020	550+ carriage	<input type="checkbox"/>
NIL PT-2440	Determination of Rockwell hardness of plastics (ISO 2039-2)	Plastics	Rockwell hardness	Jul.~ Dec., 2020	550+ carriage	<input type="checkbox"/>
Microstructure of metal Materials						
Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NIL PT-2446-1	Determination of average grain size in metallic materials(only for Intercept Procedure)	Metallic materials	Grain size number	Mar.~ Jul., 2020	400+ carriage	<input type="checkbox"/>
NIL PT-2446-2	Determination of average grain size in metallic materials(only for Intercept Procedure)	Metallic materials	Grain size number	Jul.~ Dec., 2020	400+ carriage	<input type="checkbox"/>
NIL PT-2449	Determination of depth of decarburization of steels	Steels	Depth of total decarburization, Depth of complete decarburization	Jul.~ Dec., 2020	400+ carriage	<input type="checkbox"/>
NIL PT-2458	Determination of average grain size in aluminium alloy(only for Intercept Procedure)	Aluminium alloy	Grain size number	Apr.~ Oct., 2020	400+ carriage	<input type="checkbox"/>



中国认可
能力验证
PROFICIENCY TESTING
CNAS PT0002



China NIL Research Center for Proficiency Testing

Mechanical Properties for metal Materials(special for ISO standard)						
Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NIL PT-2472-1	Brinell hardness test for metallic materials(only for ISO 6506-1)	Metallic materials	HBW 2.5/187.5	Mar.~ Jul., 2020	450+ carriage	<input type="checkbox"/>
NIL PT-2472-2	Brinell hardness test for metallic materials(only for ISO 6506-1)	Metallic materials	HBW 2.5/187.5	Jul.~ Dec., 2020	450+ carriage	<input type="checkbox"/>
NIL PT-2473-1	Brinell hardness test for metallic materials(only for ISO 6506-1)	Metallic materials	HBW 5/750	Mar.~ Jul., 2020	450+ carriage	<input type="checkbox"/>
NIL PT-2473-2	Brinell hardness test for metallic materials(only for ISO 6506-1)	Metallic materials	HBW 5/750	Jul.~ Dec., 2020	450+ carriage	<input type="checkbox"/>
NIL PT-2474-1	Brinell hardness test for metallic materials(only for ISO 6506-1)	Metallic materials	HBW 10/3000	Mar.~ Jul., 2020	450+ carriage	<input type="checkbox"/>
NIL PT-2474-2	Brinell hardness test for metallic materials(only for ISO 6506-1)	Metallic materials	HBW 10/3000	Jul.~ Dec., 2020	450+ carriage	<input type="checkbox"/>
NIL PT-2475	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Metallic materials	HRA	Mar.~ Jul., 2020	450+ carriage	<input type="checkbox"/>
NIL PT-2476-1	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Metallic materials	HRB	Mar.~ Jul., 2020	450+ carriage	<input type="checkbox"/>
NIL PT-2476-2	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Metallic materials	HRB	Jul.~ Dec., 2020	450+ carriage	<input type="checkbox"/>
NIL PT-2477-1	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Metallic materials	HRC	Mar.~Jul., 2020	450+ carriage	<input type="checkbox"/>
NIL PT-2477-2	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Metallic materials	HRC	Jul~ Sep., 2020	450+ carriage	<input type="checkbox"/>
NIL PT-2477-3	Rockwell hardness test for metallic materials (only for ISO 6508-1)	Metallic materials	HRC	Sep.~Dec., 2020	450+ carriage	<input type="checkbox"/>
NIL PT-2478	Vickers hardness test for metallic materials (only for ISO 6507-1)	Metallic materials	HV0.2	Jul.~ Dec., 2020	500+ carriage	<input type="checkbox"/>
NIL PT-2479	Vickers hardness test for metallic materials (only for ISO 6507-1)	Metallic materials	HV5	Jul.~ Dec., 2020	450+ carriage	<input type="checkbox"/>
NIL PT-2480-1	Vickers hardness test for metallic materials (only for ISO 6507-1)	Metallic materials	HV10	Mar.~ Jul., 2020	450+ carriage	<input type="checkbox"/>



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能力验证
PROFICIENCY TESTING
CNAS PT0002



China NIL Research Center for Proficiency Testing

Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NIL PT-2480-2	Vickers hardness test for metallic materials (only for ISO 6507-1)	Metallic materials	HV10	Jul.~ Dec., 2020	450+ carriage	<input type="checkbox"/>
NIL PT-2482-1	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)	Metallic materials	$R_m, R_{eL}, A, Z, R_{p0.2}$	Mar.~ Jul., 2020	600+ carriage	<input type="checkbox"/>
NIL PT-2482-2	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)	Metallic materials	$R_m, R_{eL}, A, Z, R_{p0.2}$	Jul.~ Dec., 2020	600+ carriage	<input type="checkbox"/>
NIL PT-2483	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)	Metallic materials	$R_m, R_{eL}, A, Z, R_{p0.2}$	Apr.~Oct., 2020	600+ carriage	<input type="checkbox"/>
NIL PT-2484	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)	Metallic materials	$R_m, R_{eL}, A, Z, R_{p0.2}$	Apr.~Oct., 2020	600+ carriage	<input type="checkbox"/>
NIL PT-2485	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)	Metallic materials	$R_m, R_{eL}, A, Z, R_{p0.2}$	Jul.~ Dec., 2020	600+ carriage	<input type="checkbox"/>



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PROFICIENCY TESTING
CNAS PT0002



China NIL Research Center for Proficiency Testing

Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NIL PT-2486	Room temperature tensile test for cold-rolled plate of metallic materials (Recommended testing machine: 50kN~100kN. only for ISO 6892-1)	Cold-rolled plate	$R_m, A, R_{p0.2}$	Apr.~Oct., 2020	550+ carriage	<input type="checkbox"/>
NIL PT-2487	Room temperature tensile test for hot-rolled plate of metallic materials (Recommended testing machine: 100kN~300kN. only for ISO 6892-1)	Hot-rolled plate	$R_m, R_{eL}, A, R_{p0.2}$	Mar.~ Jul., 2020	550+ carriage	<input type="checkbox"/>
NIL PT-2488	Room temperature tensile test for hot-rolled plate of metallic materials (Recommended testing machine: 300kN~600kN. only for ISO 6892-1)	Hot-rolled plate	$R_m, R_{eL}, A, R_{p0.2}$	Jul.~ Dec., 2020	550+ carriage	<input type="checkbox"/>
NIL PT-2489	Elevated temperature tensile test for metallic materials (Diameter of sample: $\Phi 5\text{mm}$, M12 normal screw threaded both ends. Matched chucking heads are required. Temperature: $\geq 300^\circ\text{C}$. only for ISO 6892-2)	Metallic materials	$R_m, A, Z, R_{p0.2}$	Apr.~Oct., 2020	600+ carriage	<input type="checkbox"/>
NIL PT-2493	Room temperature tensile test for aluminum alloy sheet (Recommended testing machine: 20kN~50kN. only for ISO 6892-1)	Aluminum alloy sheet	$R_m, A, R_{p0.2}$	Jul.~ Dec., 2020	550+ carriage	<input type="checkbox"/>
NIL PT-2495-1	Charpy impact test for metallic materials (Striker R=2mm. Recommended testing machine: $\geq 300\text{J}$. only for ISO 148-1)	Metallic materials	Impact Absorbed Energy	Mar.~ Jul., 2020	500+ carriage	<input type="checkbox"/>
NIL PT-2495-2	Charpy impact test for metallic materials (Striker R=2mm. Recommended testing machine: $\geq 300\text{J}$. only for ISO 148-1)	Metallic materials	Impact Absorbed Energy	Jul.~ Dec., 2020	500+ carriage	<input type="checkbox"/>
NIL PT-2496	Charpy impact test for metallic materials (Striker R=2mm. Recommended testing machine: $\geq 150\text{J}$. only for ISO 148-1)	Metallic materials	Impact Absorbed Energy	Apr.~Oct., 2020	500+ carriage	<input type="checkbox"/>



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CNAS PT0002



China NIL Research Center for Proficiency Testing

Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NIL PT-2497	Low-temperature Charpy impact test for metallic materials (Striker R=2mm. Recommended testing machine: $\geq 150\text{J}$. only for ISO 148-1)	Metallic materials	Impact Absorbed Energy	Jul.~ Dec., 2020	500+ carriage	<input type="checkbox"/>
NIL PT-2498	Charpy impact test for metallic materials (Striker R=2mm. Recommended testing machine: $\geq 50\text{J}$. only for ISO 148-1)	Metallic materials	Impact Absorbed Energy	Apr.~Oct., 2020	500+ carriage	<input type="checkbox"/>
Mechanical Properties for Materials (Special for ASTM standard)						
Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NIL PT-2505	Room temperature tensile test for metallic materials (Diameter of sample: $\Phi 12.5\text{mm}$, Recommended testing machine: $100\text{kN}\sim 300\text{kN}$. for ASTM E8/E8M)	Metallic materials	tensile strength , lower yield strength, elongation after fracture, reduction of area	Jul.~ Dec., 2020	650+ carriage	<input type="checkbox"/>
NIL PT-2506	Elevated temperature tensile test for metallic material (Diameter of sample: $\Phi 5\text{mm}$, M12 normal screw threaded both ends. Matched chucking heads are required. Temperature: $\geq 300^\circ\text{C}$. for ASTM E21)	Metallic materials	tensile strength , yield strength (offset =0.2%), elongation after fracture, reduction of area	Apr.~Oct., 2020	650+ carriage	<input type="checkbox"/>
NIL PT-2507	Charpy impact test for metallic materials (Striker R=8mm. Recommended testing machine: $\geq 150\text{J}$. for ASTM E23)	Metallic materials	Impact Absorbed Energy	Jul.~ Dec., 2020	550+ carriage	<input type="checkbox"/>
NILPT-2508	Brinell hardness test for metallic materials(for ASTM E10)	Metallic materials	HBW 10/3000	Jul.~ Dec., 2020	550+ carriage	<input type="checkbox"/>
Serial No	Title	Test object	Test items	Schedule	Fees (USD)	Select
NILPT-2509	Rockwell hardness test for metallic materials(for ASTM E18)	Metallic materials	HRC	Jul.~ Dec., 2020	550+ carriage	<input type="checkbox"/>



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CNAS PT0002



China NIL Research Center for Proficiency Testing

NILPT-2510	Vickers hardness test for metallic materials(for ASTM E92)	Metallic materials	HV10	Jul.~ Dec., 2020	600+ carriage	<input type="checkbox"/>
NIL PT-2511	Determination of average grain size in metallic materials (Recommendation for Intercept Procedure. for ASTM E112)	Metallic materials	Grain size number	Jul.~ Dec., 2020	450+ carriage	<input type="checkbox"/>
Non-destructive Test for Metallic Material						
NIL PT-2520	Non-destructive testing of welds(Ultrasonic testing) (Sequential scheme)	Steel Plate	Location of indication, length of indication	Apr.~Dec., 2020	500+ carriage	<input type="checkbox"/>

***Note: For NIL PT-2153-1, NIL PT-2153-2, NIL PT-2153-3, NIL PT-2154-1, NIL PT-2154-2, NIL PT-2158-1, NIL PT-2158-2, NIL PT-2160, NIL PT-2174, NIL PT-2175-1, NIL PT-2175-2, NIL PT-2178, two kinds of samples (discs and chips) are available for different methods(chips sample is available for ICP-AES or Gravimetric Method etc., discs sample is available for XRF or spark-OES method etc.) .**

Please choose the kind of samples you would like to receive in the registration form.



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SOME USEFUL INFORMATION OF THE SCHEMES

* How to participate our PT schemes

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

Information of Laboratory

Name of Laboratory: _____

Postal Address & Zip Code: _____

Contact Person: _____ Country: _____

E-mail: _____

Tel: _____ Fax: _____

China NIL Research Center for Proficiency Testing

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

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

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

E-mail: nil@analysis.org.cn

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

* Test samples (or specimens)

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

* Testing method

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

* Registration fees

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