

## NIL Proficiency Testing Schemes (2007) (Chemical Analysis, Mechanical & Physical Testing)

Dear Sir or Madam:

I take great pleasure in informing you that China NIL will focus on providing some international proficiency testing schemes in 2007, which are listed in the following Table 1(chemical analysis) and Table 2 (mechanical & physical testing). Furthermore, many perennial proficiency testing schemes will also be provided in succession according to the requirement of internal and international laboratories. (See NIL Website <http://english.nil.org.cn>).

I hope that the information in this notification are useful for you and kindly ask you to distribute it to any testing laboratory involved in your country.

**Table 1 Chemical Analysis of metals & raw material**

Serial No.	Title	Test items	Schedule	Fees (US Dollar)
* NIL PT-0113	Determination of carbon, silicon, manganese, phosphorus and sulphur contents in stainless steel	C, Si, Mn, P, S	Feb.~ Dec., 2007	325
* NIL PT-0114	Determination of chromium, nickel and titanium contents in stainless steel	Cr, Ni, Ti	Feb.~ Dec., 2007	325
* NIL PT-0115	Determination of carbon, silicon, manganese, phosphorus and sulphur contents in low alloy steel	C, Si, Mn, P, S	Feb.~ Dec., 2007	325
* NIL PT-0116	Determination of chromium, nickel, copper, tungsten and molybdenum contents in low alloy steel	Cr, Ni, Cu, W, Mo	Feb.~ Dec., 2007	325
NIL PT-0118	Determination of carbon, silicon, manganese, phosphorus and sulphur contents in silicomanganese alloy	C, Si, Mn, P, S	Feb.~ Dec., 2007	325
NIL PT-0119	Determination of SiO <sub>2</sub> , CaO, MgO and Phosphorus contents in limestone	SiO <sub>2</sub> , CaO, MgO, P	Feb.~ Dec., 2007	300
NIL PT-0120	Metallic galvanized sheet - Measurement of coating thickness (by X-ray spectrometry or Glow discharge optical-emission spectrometry)	Coating Thickness	Feb.~ Dec., 2007	325
NIL PT-0121	Determination of TMn, TFe, SiO <sub>2</sub> and phosphorus contents in manganese minerals	TMn, TFe, SiO <sub>2</sub> , P	Feb.~ Dec., 2007	325
NIL PT-0123	Determination of SiO <sub>2</sub> , CaO, MgO, Fe <sub>2</sub> O <sub>3</sub> and Al <sub>2</sub> O <sub>3</sub> contents in high alumina refractory materials	SiO <sub>2</sub> , CaO, MgO, Fe <sub>2</sub> O <sub>3</sub> , Al <sub>2</sub> O <sub>3</sub>	Feb.~ Dec., 2007	300
NIL PT-0125	Determination of silicon, aluminum, ferrum and vanadium in contents in titanium alloy	Si, Al, Fe, V	Feb.~ Dec., 2007	325
NIL PT-0126	Determination of plumbum, cadmium, ferrum and copper contents in metallic zinc	Pb, Cd, Fe, Cu	Feb.~ Dec., 2007	300
NIL PT-0127	Determination of zinc, copper, plumbum, ferrum and arsenic contents in zinc concentrates	Zn, Cu, Pb, Fe, As	Feb.~ Dec., 2007	325

\* Two kind of samples (discs and chips) will be prepared for these schemes

**Table 2 Mechanical & physical testing of metals**

Serial No.	Title	Test items	Schedule	Fees (US Dollar)
NIL PT-0135	Quantitative analysis of residual austenite content in steel by X-ray spectrometry	Residual austenite	Feb.~ Dec., 2007	400
NIL PT-0136	Brinell hardness test for metallic materials	HBW 10/3000	Feb.~ Dec., 2007	450
NIL PT-0137	Rockwell hardness test for metallic materials	HRB	Feb.~ Dec., 2007	450
NIL PT-0138	Rockwell hardness test for metallic materials	HRC	Feb.~ Dec., 2007	450
NIL PT-0139	Vickers hardness test for metallic materials	HV10	Feb.~ Dec., 2007	450
NIL PT-0140	Charpy impact test for metallic materials	H, UH	Feb.~ Dec., 2007	500
NIL PT-0141	Plane-strain fracture toughness ( $K_{IC}$ ) test for metallic materials	$K_{IC}$	Feb.~ Dec., 2007	800

As a professional PT provider, NIL has been accredited by China National Accreditation Service Conformity Assessment (CNAS) {CNAS was founded on March 31, 2006 by merging the former China National Accreditation Board for Certifiers (CNAB) and China National Accreditation Board for Laboratories (CNAL)}.

All PT schemes provided by NIL are operated in compliance with ISO/IEC Guide 43:1997 Part 1 and ILAC Guide G13 "Guidelines for the Requirements of the Providers of Proficiency Testing Schemes", and open to laboratories anywhere in the world.

#### **SOME USEFUL INFORMATION OF THE SCHEMES:**

##### **\* Test samples (or specimens)**

After NIL receive the "Registration Form for PT Schemes" from the participants, Test samples shall be distributed along with "INSTRUCTIONS TO PARTICIPANTS", "SAMPLES RECEIPT FORM" and "RESULT SHEET" to the laboratories participating in the scheme. In the proficiency testing schemes 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 possible after you submit "Registration Form for PT Schemes". A formal invoice will be forwarded to participating laboratory together with the samples.

**\* Schedule**

- Dispatch of the notification and registration form for PT schemes in *February and March 2007*;
- Return of the Registration Form for PT Schemes by *May 2007*(please use E-mail or Fax);
- Sample distribution in *May ~July 2007*;
- Reporting tested results to NIL approximately 2 weeks after sample receipt
- The statistical summary reports will be published in *October~ December 2007*.

Any information with which you may favor us will be much appreciated, and we earnestly await your order.

Yours sincerely



**WANG Haizhou**

**President of China NIL Research Center for Proficiency Testing**

## Registration Form for PT Schemes

If your laboratory would like to participate in the NIL PT Schemes in 2007, please tick for ordering and submit your involved details below:

<input type="checkbox"/> NIL PT-0113	<input type="checkbox"/> NIL PT-0114	<input type="checkbox"/> NIL PT-0115	<input type="checkbox"/> NIL PT-0116
<input type="checkbox"/> NIL PT-0118	<input type="checkbox"/> NIL PT-0119	<input type="checkbox"/> NIL PT-0120	<input type="checkbox"/> NIL PT-0121
<input type="checkbox"/> NIL PT-0123	<input type="checkbox"/> NIL PT-0125	<input type="checkbox"/> NIL PT-0126	<input type="checkbox"/> NIL PT-0127
<input type="checkbox"/> NIL PT-0135	<input type="checkbox"/> NIL PT-0136	<input type="checkbox"/> NIL PT-0137	<input type="checkbox"/> NIL PT-0138
<input type="checkbox"/> NIL PT-0139	<input type="checkbox"/> NIL PT-0140	<input type="checkbox"/> NIL PT-0141	

Name of Laboratory: \_\_\_\_\_

Postal Address & Zip Code: \_\_\_\_\_

Contact Person: \_\_\_\_\_ Country: \_\_\_\_\_

E-mail: \_\_\_\_\_

Phone: \_\_\_\_\_; Fax: \_\_\_\_\_

*Please return this form as soon as possible by e-mail or fax; no later than **May 15<sup>th</sup>, 2006***

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