

## China NIL Proficiency Testing Schemes (2013) (Chemical Analysis & Mechanical Testing)

China NIL Research Center for Proficiency Testing take great pleasure in informing you that we provide the 1<sup>st</sup> round of some international proficiency testing schemes in 2013, which are listed in the following Table 1. Furthermore, many perennial proficiency testing schemes will also be provided according to the requirement of internal and international laboratories. (See NIL website <http://english.nil.org.cn>).

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", and open to laboratories anywhere in the world.

We hope that the information in this notification are useful for you and kindly ask you to distribute it to any testing laboratory which might be interested.

**Table 1 Chemical Analysis & Mechanical Testing for 2013**

| Serial No.  | Title                                                                                                         | Test items                               | Schedule          | Fees (USD) |
|-------------|---------------------------------------------------------------------------------------------------------------|------------------------------------------|-------------------|------------|
| NIL PT-0400 | Determination of the content in low alloy steel                                                               | C, Si, Mn, P, S                          | Mar. ~ Jul., 2013 | 450        |
| NIL PT-0401 | Determination of the content in low alloy steel                                                               | C, Si, Mn, P, S                          | Jul. ~ Dec., 2013 | 450        |
| NIL PT-0402 | Determination of the content in low alloy steel                                                               | Cr, Ni, Cu, Mo                           | Mar. ~ Jul., 2013 | 450        |
| NIL PT-0403 | Determination of the content in low alloy steel                                                               | Cr, Ni, Cu, Mo                           | Jul. ~ Dec., 2013 | 450        |
| NIL PT-0404 | Determination of the content in low alloy steel by spark source atomic emission spectrometry                  | Si, Mn, P, Cr, Ni, Cu                    | Apr.~ Oct., 2013  | 500        |
| NIL PT-0405 | Determination of the content in stainless steel                                                               | Si, Mn, P, Cr, Ni, Ti                    | Apr.~ Oct., 2013  | 500        |
| NIL PT-0406 | Determination of C and S content in steel                                                                     | C, S                                     | Mar. ~ Jul., 2013 | 400        |
| NIL PT-0407 | Determination of C and S content in steel                                                                     | C, S                                     | Jul. ~ Dec., 2013 | 400        |
| NIL PT-0408 | Determination of O and N content in steel                                                                     | O, N                                     | Apr.~ Oct., 2013  | 400        |
| NIL PT-0410 | Determination of the content in ferrosilicium alloy                                                           | Si, Mn, P, Al, Ca                        | Apr.~ Oct., 2013  | 450        |
| NIL PT-0411 | Determination of the content in ferromanganese alloy                                                          | C, Si, Mn, P                             | Apr.~ Oct., 2013  | 450        |
| NIL PT-0412 | Determination of the content in Si-Mn alloy                                                                   | Si, Mn, P, S                             | Apr.~ Oct., 2013  | 450        |
| NIL PT-0414 | Determination of the content in pure aluminum by ICP-AES                                                      | Si, Fe, Cu, Mg, Zn                       | Apr.~ Oct., 2013  | 450        |
| NIL PT-0418 | Determination of the content in iron ore                                                                      | TFe, SiO <sub>2</sub> , P, S             | Apr.~ Oct., 2013  | 450        |
| NIL PT-0419 | Determination of the content in iron ore                                                                      | CaO, MgO, Al <sub>2</sub> O <sub>3</sub> | Apr.~ Oct., 2013  | 450        |
| NIL PT-0420 | Determination of the content in manganese ore                                                                 | TMn, TFe, SiO <sub>2</sub>               | Apr.~ Oct., 2013  | 450        |
| NIL PT-0425 | Determination of the content in lime stone                                                                    | SiO <sub>2</sub> , CaO, MgO              | Apr.~ Oct., 2013  | 450        |
| NIL PT-0454 | Brinell hardness test for metallic materials                                                                  | HBW 2.5/187.5                            | Apr.~Jul., 2013   | 450        |
| NIL PT-0455 | Brinell hardness test for metallic materials                                                                  | HBW5/750                                 | Apr.~Jul., 2013   | 450        |
| NIL PT-0456 | Brinell hardness test for metallic materials                                                                  | HBW 10/3000                              | Jul.~Nov., 2013   | 450        |
| NIL PT-0457 | Rockwell hardness test for metallic materials                                                                 | HRB                                      | Jul.~Nov., 2013   | 450        |
| NIL PT-0458 | Rockwell hardness test for metallic materials                                                                 | HRC                                      | Apr.~ Oct., 2013  | 450        |
| NIL PT-0459 | Vickers hardness test for metallic materials                                                                  | HV0.2                                    | Apr.~ Oct., 2013  | 500        |
| NIL PT-0460 | Vickers hardness test for metallic materials                                                                  | HV5                                      | Apr.~ Oct., 2013  | 500        |
| NIL PT-0461 | Vickers hardness test for metallic materials                                                                  | HV10                                     | Jul.~Nov., 2013   | 500        |
| NIL PT-0462 | Room temperature tensile test for metallic materials (Φ10mm sample, recommended testing machine:100kN~1000kN) | Rm, ReL, A, Z                            | Apr.~ Oct., 2013  | 500        |
| NIL PT-0464 | Charpy impact test for metallic materials(Striker R=2mm)                                                      | Impact Absorbed                          | Apr.~ Oct., 2013  | 550        |

|  |  |                    |  |  |
|--|--|--------------------|--|--|
|  |  | Energy(M, 70~110J) |  |  |
|--|--|--------------------|--|--|

**\*Note:** For NIL PT-0400, NIL PT-0401, NIL PT-0402, NIL PT-0403 and NIL PT-0405, two kinds of samples (discs and chips) are available for different methods. Please choose which kind of samples you would like to receive in the registration form.

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

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

After NIL receives 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 the laboratory submits "Registration Form for PT Schemes". A formal invoice will be forwarded to participating laboratory together with the samples.

Yours sincerely



**WANG Haizhou**

**Chief Scientist of China NIL Research Center for Proficiency Testing**

**Director of CNAS PT Committee**

**Member of Chinese Academy of Engineering**

## Registration Form for PT Schemes

If your laboratory would like to participate in the PT Schemes in 2012, please tick for ordering and submit your involved details below:

- |                                                                                                         |                                                                                                         |
|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|
| <input type="checkbox"/> NIL PT-0400( <input type="checkbox"/> Discs ; <input type="checkbox"/> Chips ) | <input type="checkbox"/> NIL PT-0401( <input type="checkbox"/> Discs ; <input type="checkbox"/> Chips ) |
| <input type="checkbox"/> NIL PT-0402( <input type="checkbox"/> Discs ; <input type="checkbox"/> Chips ) | <input type="checkbox"/> NIL PT-0403( <input type="checkbox"/> Discs ; <input type="checkbox"/> Chips ) |
| <input type="checkbox"/> NIL PT-0404                                                                    | <input type="checkbox"/> NIL PT-0405( <input type="checkbox"/> Discs ; <input type="checkbox"/> Chips ) |
| <input type="checkbox"/> NIL PT-0406                                                                    | <input type="checkbox"/> NIL PT-0407                                                                    |
| <input type="checkbox"/> NIL PT-0408                                                                    | <input type="checkbox"/> NIL PT-0410                                                                    |
| <input type="checkbox"/> NIL PT-0411                                                                    | <input type="checkbox"/> NIL PT-0412                                                                    |
| <input type="checkbox"/> NIL PT-0414                                                                    | <input type="checkbox"/> NIL PT-0418                                                                    |
| <input type="checkbox"/> NIL PT-0419                                                                    | <input type="checkbox"/> NIL PT-0420                                                                    |
| <input type="checkbox"/> NIL PT-0425                                                                    | <input type="checkbox"/> NIL PT-0454                                                                    |
| <input type="checkbox"/> NIL PT-0455                                                                    | <input type="checkbox"/> NIL PT-0456                                                                    |
| <input type="checkbox"/> NIL PT-0457                                                                    | <input type="checkbox"/> NIL PT-0458                                                                    |
| <input type="checkbox"/> NIL PT-0459                                                                    | <input type="checkbox"/> NIL PT-0460                                                                    |
| <input type="checkbox"/> NIL PT-0461                                                                    | <input type="checkbox"/> NIL PT-0462                                                                    |
| <input type="checkbox"/> NIL PT-0464                                                                    |                                                                                                         |



\*Note: For NIL PT-0400, NIL PT-0401, NIL PT-0402, NIL PT-0403 and NIL PT-0405, two kinds of samples (discs and chips) are available for different methods. Please choose which kind of samples you would like to receive, discs or chips?

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

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

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

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

Tel: \_\_\_\_\_; Fax: \_\_\_\_\_

**Please return this form as soon as possible by e-mail or fax; no later than May 31st, 2013.**

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