



Metals Industry Research & Development Center



Department of Science & Technology

**PHILTECH GLASS INDUSTRIES CORPORATION**  
#44 De Versa Street cor. Roosevelt Avenue,  
SFDM, Quezon City, Philippines 1105

TO WHOM THIS MAY CONCERN:

Based on the chemical analysis reflected in MIRDC Certificate No. 2012-1-0392-39, the chemical composition of the sample designated by the customer as **Stainless Steel 304** falls within standard austenitic stainless steel UNS S30400 as specified in ASM Alloy Digest Stainless Steels Sourcebook, 2000, or commonly known as stainless steel Type 304 classified as general purpose grade and austenitic chromium-nickel stainless steel.

*Nelson L. Tumibay*  
**NELSON L. TUMIBAY**  
Senior Science Research Specialist  
Physical Metallurgy Laboratory

Noted:

*F. Tamayo*  
**RODNEL O. TAMAYO**  
Officer-in-Charge  
Materials and Process Research Division

Report Number : 2012-1-0260-43A  
Date : 14 November 2012

# METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER



Department of Science and Technology

Gen. Santos Ave., Bicutan, Taguig City, 1631 Philippines  
Tel. Nos.: 837-0431 to 38 local 481 or 482 / Fax Nos.: 837-0430, 838-7878

## ANALYSIS AND TESTING DIVISION

# CERTIFICATE



PHILTECH GLASS INDUSTRIES CORPORATION  
# 44 De Versa Street, Corner Roosevelt Avenue,  
SFDM, Quezon City, Philippines 1105

Type of Analysis : CHEMICAL ANALYSIS  
Customer's Sample Description : Stainless Steel 304  
Date Received : 03 October 2012  
Test Started : 05 October 2012  
Test Completed : 24 October 2012

### TEST METHOD/S :

Test conducted on as-received sample/s in accordance with:

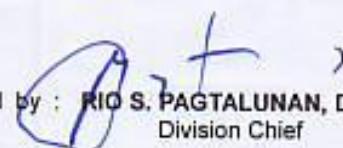
|        |   |  |
|--------|---|--|
| C, S   | - | ASTM E 1019-08                                 |
| Si, Ni | - | ASTM E 353-93 (Reapproved 2006) (Modified)     |
| P      | - | ISO 2732-1984                                  |
| Mn, Cu | - | PCL-NTP-004 (Flame Atomic Absorption Analysis) |
| Cr     | - | PCL-NTP-005 (Analysis of Chromium)             |
| Mo     | - | PCL-NTP-003 (Analysis of Molybdenum)           |

### TEST RESULT/S :

| % C   | % S   | % Si | % P   | % Mn | % Ni | % Cu | % Cr  | % Mo  |
|-------|-------|------|-------|------|------|------|-------|-------|
| 0.050 | 0.003 | 0.76 | 0.036 | 1.12 | 8.23 | 0.21 | 18.34 | 0.077 |

Note : Other remaining elements were not identified/analyzed.

  
GINA A. CATALAN  
Approved Signatory

  
Noted by : RIO S. PAGTALUNAN, Dr.Tech.  
Division Chief