



財團法人全國認證基金會  
Taiwan Accreditation Foundation

## Certificate of Accreditation

(Certificate No : L0130-251028)

This is to certify that

**China Steel Corporation**

**Chemical Laboratory**

1 Chung-Kang Road, Siaogang District, Kaohsiung 812401, Taiwan, R.O.C.

**is accredited in respect of laboratory**

**Accreditation Criteria** : ISO/IEC 17025:2017 ; CNS 17025:2018

**Accreditation Number** : 0130

**Originally Accredited** : October 30, 1993

**Effective Period** : October 30, 2025 to October 29, 2028

**Accredited Scope** : Testing Field, see described in the Appendix



Scan to verify

*Yi-Ling Chen*

Yi-Ling Chen  
President, Taiwan Accreditation Foundation  
October 28, 2025

Accreditation Number : 0130

Laboratory Head : HSIAO, Ming-Chang

▣ 01. 01 Metals and Alloys Products

Stainless Steel

C001 Elemental Analysis

ASTM E1086

C: (0.010 to 0.250) %

Si: (0.020 to 0.900) %

Mn: (0.050 to 2.00) %

P: (0.005 to 0.070) %

S: (0.003 to 0.040) %

Cu: (0.010 to 0.300) %

Ni: (7.50 to 13.00) %

Cr: (17.00 to 23.00) %

Mo: (0.010 to 3.00) %

Approval Signatory: CHIANG, Chia-Chun; KAO, Chi-Chan; CHANG, Yu-Ming;  
CHEN, Chih-Jung; HSIAO, Ming-Chang; CHUNG, Yung-Hsin

C001 Elemental Analysis

CNS 10006

JIS G1253

C: (0.010 to 1.000) %

Si: (0.020 to 1.700) %

Mn: (0.050 to 9.10) %

P: (0.005 to 0.070) %

S: (0.001 to 0.040) %

Cu: (0.010 to 3.70) %

Ni: (0.180 to 21.00) %

Cr: (9.10 to 25.40) %

Mo: (0.010 to 3.55) %

V: (0.010 to 0.400) %

Nb: (0.020 to 1.500) %

Ti: (0.005 to 2.00) %

Al: (0.003 to 0.100) %

Sn: (0.003 to 0.100) %

B: (0.0005 to 0.0080) %

W: (0.020 to 0.950) %

Co: (0.010 to 0.950) %

Pb: (0.001 to 0.017) %

Approval Signatory: CHIANG, Chia-Chun; KAO, Chi-Chan; CHANG, Yu-Ming;  
CHEN, Chih-Jung; HSIAO, Ming-Chang; CHUNG, Yung-Hsin

▣ 01. 01 Metals and Alloys Products

Carbon Steel, Low Alloy Steel

C001 Elemental Analysis

ASTM E415

C: (0.020 to 1.100) %

Si: (0.020 to 1.540) %

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Mn: (0.050 to 2.00) %  
P: (0.006 to 0.085) %  
S: (0.001 to 0.040) %  
Cu: (0.006 to 0.500) %  
Ni: (0.006 to 5.00) %  
Cr: (0.007 to 4.10) %  
Mo: (0.007 to 1.250) %  
V: (0.003 to 0.300) %  
Nb: (0.003 to 0.120) %  
Ti: (0.001 to 0.200) %  
Al: (0.006 to 0.093) %  
Sn: (0.005 to 0.061) %  
B: (0.0004 to 0.0070) %  
Ca: (0.0003 to 0.0030) %  
Co: (0.006 to 0.200) %  
Pb: (0.002 to 0.200) %  
Sb: (0.006 to 0.027) %  
As: (0.003 to 0.100) %

Approval Signatory: CHIANG, Chia-Chun; KAO, Chi-Chan; CHANG, Yu-Ming;  
CHEN, Chih-Jung; HSIAO, Ming-Chang; CHUNG, Yung-Hsin

C001 Elemental Analysis

CNS 10006

JIS G1253

C: (0.010 to 1.300) %  
Si: (0.010 to 3.95) %  
Mn: (0.050 to 2.20) %  
P: (0.002 to 0.120) %  
S: (0.001 to 0.040) %  
Cu: (0.002 to 1.480) %  
Ni: (0.003 to 5.40) %  
Cr: (0.003 to 4.10) %  
Mo: (0.002 to 1.250) %  
V: (0.001 to 0.850) %  
Nb: (0.004 to 0.500) %  
Ti: (0.001 to 0.300) %  
Al: (0.002 to 1.570) %  
Sn: (0.001 to 0.110) %  
B: (0.0002 to 0.012) %  
Ca: (0.0003 to 0.0050) %  
Co: (0.003 to 0.500) %  
Pb: (0.001 to 0.200) %  
Sb: (0.010 to 0.090) %  
As: (0.002 to 0.110) %

Approval Signatory: CHIANG, Chia-Chun; KAO, Chi-Chan; CHANG, Yu-Ming;  
CHEN, Chih-Jung; HSIAO, Ming-Chang; CHUNG, Yung-Hsin

C001 Elemental Analysis

JIS G1258-1

Si: (0.01 to 0.60) wt%  
Mn: (0.01 to 2.00) wt%  
P: (0.003 to 0.10) wt%  
Ni: (0.01 to 4.00) wt%  
Cr: (0.01 to 3.00) wt%

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Mo: (0.01 to 1.20) wt%  
Cu: (0.01 to 0.50) wt%  
V: (0.002 to 0.50) wt%  
Co: (0.003 to 0.20) wt%  
Ti: (0.001 to 0.30) wt%  
Al: (0.004 to 0.10) wt%  
Ca: (0.0005 to 0.005) wt%  
Mg: (0.0005 to 0.011) wt%  
As: (0.001 to 0.012) wt%  
Zr: (0.010 to 0.060) wt%  
Zn: (0.001 to 0.005) wt%

Approval Signatory: CHEN, Chih-Jung; CHENG, Chien-Chung; HSIAO, Ming-Chang;  
CHUNG, Yung-Hsin

**C001 Elemental Analysis**

In-House Method:

Iron and steel-ICP atomic emission spectrometric method

Doc. No.: GB-T435-A14

Si: (0.01 to 6.00) wt%  
Mn: (0.01 to 2.20) wt%  
P: (0.003 to 0.20) wt%  
Ni: (0.01 to 5.40) wt%  
Cr: (0.01 to 4.10) wt%  
Mo: (0.01 to 1.25) wt%  
Cu: (0.01 to 1.48) wt%  
V: (0.002 to 0.85) wt%  
Co: (0.003 to 0.50) wt%  
Ti: (0.001 to 0.30) wt%  
Al: (0.004 to 2.00) wt%  
Ca: (0.0005 to 0.005) wt%  
Mg: (0.0005 to 0.011) wt%  
As: (0.001 to 0.10) wt%  
Zr: (0.010 to 0.060) wt%  
Zn: (0.001 to 0.005) wt%  
Nb: (0.004 to 0.50) wt%  
Sn: (0.001 to 0.110) wt%  
B: (0.0002 to 0.012) wt%  
Pb: (0.001 to 0.20) wt%  
Sb: (0.010 to 0.09) wt%

Approval Signatory: CHEN, Chih-Jung; CHENG, Chien-Chung; HSIAO, Ming-Chang;  
CHUNG, Yung-Hsin

▼ 01. 01 Metals and Alloys Products

Carbon Steel, Low Alloy Steel, Stainless Steel

C001 Elemental Analysis

ASTM E1019

O: (0.001 to 0.005) %  
N: (0.001 to 0.200) %

Approval Signatory: CHIANG, Chia-Chun; KAO, Chi-Chan; CHANG, Yu-Ming;  
CHEN, Chih-Jung; HSIAO, Ming-Chang; CHUNG, Yung-Hsin



C001 Elemental Analysis  
ASTM E1019  
S: (0.001 to 0.350) %  
C: (0.002 to 2.00) %

Approval Signatory: CHIANG, Chia-Chun; KAO, Chi-Chan; CHANG, Yu-Ming;  
CHEN, Chih-Jung; HSIAO, Ming-Chang; CHUNG, Yung-Hsin

C001 Elemental Analysis  
CNS 11069  
JIS G1211-3  
C: (0.001 to 2.00) %

Approval Signatory: CHIANG, Chia-Chun; KAO, Chi-Chan; CHANG, Yu-Ming;  
CHEN, Chih-Jung; HSIAO, Ming-Chang; CHUNG, Yung-Hsin

C001 Elemental Analysis  
JIS G1215-4  
S: (0.0005 to 0.400) %

Approval Signatory: CHIANG, Chia-Chun; KAO, Chi-Chan; CHANG, Yu-Ming;  
CHEN, Chih-Jung; HSIAO, Ming-Chang; CHUNG, Yung-Hsin

C001 Elemental Analysis  
JIS G1228-3  
N: (0.0008 to 0.391) %

Approval Signatory: CHIANG, Chia-Chun; KAO, Chi-Chan; CHANG, Yu-Ming;  
CHEN, Chih-Jung; HSIAO, Ming-Chang; CHUNG, Yung-Hsin

▀ 01. 01 Metals and Alloys Products

Zinc Coating Layer

C001 Elemental Analysis

In-House Method: Determination of zinc, iron, and aluminum content in coating layer of zinc-coated steel sheet and strip by ICP atomic emission spectrometric method

Doc. No.: GB-T435-N81

Zn: (10 to 1000) g/m<sup>2</sup>

Fe: (0.2 to 15) g/m<sup>2</sup>

Al: (0.05 to 10) g/m<sup>2</sup>

Approval Signatory: CHEN, Chih-Jung; CHENG, Chien-Chung; HSIAO, Ming-Chang

▀ 01. 01 Metals and Alloys Products

Zinc Coating Steel

C055 Coating Weight

1.JIS G3302 Annex JC

2.CNS 1244 Appendix C

3.JIS G3313 Appendix JD

1. (30 to 165) g/m<sup>2</sup> (one-side)

2. (30 to 165) g/m<sup>2</sup> (one-side)

3. (30 to 165) g/m<sup>2</sup> (one-side)

Approval Signatory: CHIANG, Chia-Chun; KAO, Chi-Chan; CHANG, Yu-Ming;  
HSIAO, Ming-Chang; CHUNG, Yung-Hsin

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The Appendix forms an integral part of this Certificate, which shall be invalid when use without the Appendix



M010 Coating Weight  
CNS 1247 Sec. 5.2  
JIS H0401 Sec. 5.2  
ASTM A90/A90M  
JIS G3313 Appendix JF  
JIS G3302 Appendix JE  
(2.5 to 1000) g/m<sup>2</sup>

Approval Signatory: CHEN, Chih-Jung; CHENG, Chien-Chung; HSIAO, Ming-Chang

▼ 02. 02 Minerals

Coal, Coke  
C025 Total Carbon in Analysis Samples of Coal and Coke  
ASTM D5373 (Method B)  
ISO 29541  
Coal:  
C: (65.0 to 84.0) %  
Coke:  
C: (86.3 to 90.0) %

Approval Signatory: KUO, Yu-Hsien; CHEN, Ying-Tsung; HSIAO, Ming-Chang

▼ 03. 01 Cements, Clays, Ceramics and Related Materials

Refractory  
M020 Permanent Linear Change  
JIS R2554  
(-10.00 to 10.00) %  
Specimen Size L×W×T: 160 mm×40 mm×40 mm

Approval Signatory: LIN, Chun-Chieh; KAO, Yi-Hsiao; CHEN, Po-Hung;  
CHENG, Chien-Chung; HSIAO, Ming-Chang

M023 Modulus of Rupture  
JIS R2553  
(1 to 50) kN  
Specimen Size L×W×T: 160 mm×40 mm×40 mm

Approval Signatory: LIN, Chun-Chieh; KAO, Yi-Hsiao; CHEN, Po-Hung;  
CHENG, Chien-Chung; HSIAO, Ming-Chang

M028 Specific Gravity  
JIS R2205  
0.90 to 6.00  
Exclude True Specific Gravity  
Boiling Method (Water)  
Vacuum Method (Kerosene)  
Castable Refractory Specimen Size L×W×T: 160 mm×40 mm×40 mm

Approval Signatory: LIN, Chun-Chieh; KAO, Yi-Hsiao; CHEN, Po-Hung;  
CHENG, Chien-Chung; HSIAO, Ming-Chang

M069 Apparent Porosity  
JIS R2205  
(1.0 to 60.0) %  
Boiling Method (Water)  
P6, total 7 pages



Vacuum Method (Kerosene)

Castable Refractory Specimen Size L×W×T: 160 mm×40 mm×40 mm

Approval Signatory: LIN, Chun-Chieh; KAO, Yi-Hsiao; CHEN, Po-Hung;  
CHENG, Chien-Chung; HSIAO, Ming-Chang

M070 Cold Compressive Strength

JIS R2206-2

(5 to 500) kN

Approval Signatory: LIN, Chun-Chieh; KAO, Yi-Hsiao; CHEN, Po-Hung;  
CHENG, Chien-Chung; HSIAO, Ming-Chang

M070 Cold Compressive Strength

JIS R2553

(5 to 500) kN

Specimen Size L×W×T: 160 mm×40 mm×40 mm

Approval Signatory: LIN, Chun-Chieh; KAO, Yi-Hsiao; CHEN, Po-Hung;  
CHENG, Chien-Chung; HSIAO, Ming-Chang

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