



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

Certification Accreditation

(Certificate No : L0130-221014)

This is to certify that

China Steel Corporation Chemical Laboratory

1 Chung-Kang Road, Siaogang District, Kaohsiung 81233, 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, 2022 to October 29, 2025

Accredited Scope : Testing Field, see described in the Appendix



Scan to verify

Ching-Chang Lien

Ching-Chang Lien
President, Taiwan Accreditation Foundation
October 14, 2022

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 0.30) %

Ni: (7.50 to 13.00) %

Cr: (17.0 to 23.0) %

Mo: (0.010 to 3.0) %

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

C001 Elemental Analysis

CNS 10006

JIS G1253

C: (0.010 to 1.000) %

Si: (0.020 to 1.70) %

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 1.50) %

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: KAO, Chi-Chan; CHANG, Yu-Ming; 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 1.54) %

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 0.007) %

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: KAO, Chi-Chan; CHANG, Yu-Ming; HSIAO, Ming-Chang; CHUNG, Yung-Hsin

C001 Elemental Analysis

CNS 10006

JIS G1253

C: (0.010 to 1.300) %

Si: (0.010 to 3.10) %

Mn: (0.050 to 2.20) %

P: (0.002 to 0.120) %

S: (0.001 to 0.040) %

Cu: (0.002 to 1.000) %

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 0.620) %

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) %

P3, total 6 pages



Sb: (0.010 to 0.090) %

As: (0.002 to 0.110) %

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

C001 Elemental Analysis

ASTM E1019

S: (0.002 to 0.350) %

C: (0.005 to 2.00) %

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

C001 Elemental Analysis

CNS 11069

JIS G1211-3

C: (0.001 to 2.00) %

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

C001 Elemental Analysis

JIS G1215-4

S: (0.0005 to 0.400) %

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

C001 Elemental Analysis

JIS G1228

N: (0.0009 to 0.050) %

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

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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/m²

Fe: (0.2 to 15) g/m²

Al: (0.05 to 10) g/m²

Approval Signatory: LIEN, Shih-Hsun; KUO, Yu-Hsien; CHEN, Chih-Jung; CHENG, Chien-Chung; HSIAO, Ming-Chang

01. 01 Metals and Alloys Products

Zinc Coating Steel

C055 Coating Weight

JIS G3302 Annex JC

CNS 1244 Appendix C

JIS G3313 Appendix JD

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

M010 Coating Weight

CNS 1247 Sec. 5.2

JIS H0401 Sec. 5.2

ASTM A90/A90M

JIS G3313 Appendix JF

JIS G3302 Appendix JE

Approval Signatory: LIEN, Shih-Hsun; KUO, Yu-Hsien; CHEN, Chih-Jung; CHENG, Chien-Chung; 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 : (160×40×40) mm

Approval Signatory: CHIANG, Chia-Chun; YEH, Chang-Sheng; TSAI, Meng-Hsun; CHENG, Chien-Chung; HSIAO, Ming-Chang



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

Approval Signatory:CHIANG, Chia-Chun; YEH, Chang-Sheng; TSAI, Meng-Hsun;
CHENG, Chien-Chung; HSIAO, Ming-Chang

M028 Specific Gravity
JIS R2205
(0.90 to 6.00)
Castable Refractory Specimen Size L×W×T : (160×40×40) mm

Approval Signatory:CHIANG, Chia-Chun; YEH, Chang-Sheng; TSAI, Meng-Hsun;
CHENG, Chien-Chung; HSIAO, Ming-Chang

M069 Apparent Porosity
JIS R2205
(1.0 to 60.0) %
Castable Refractory Specimen Size L×W×T : (160×40×40) mm

Approval Signatory:CHIANG, Chia-Chun; YEH, Chang-Sheng; TSAI, Meng-Hsun;
CHENG, Chien-Chung; HSIAO, Ming-Chang

M070 Cold Compressive Strength
JIS R2206-2
(5 to 500) KN

Approval Signatory:CHIANG, Chia-Chun; YEH, Chang-Sheng; TSAI, Meng-Hsun;
CHENG, Chien-Chung; HSIAO, Ming-Chang

M070 Cold Compressive Strength
JIS R2553
(5 to 500) kN
Specimen Size L×W×T : (160×40×40) mm

Approval Signatory:CHIANG, Chia-Chun; YEH, Chang-Sheng; TSAI, Meng-Hsun;
CHENG, Chien-Chung; HSIAO, Ming-Chang

(Null below)

