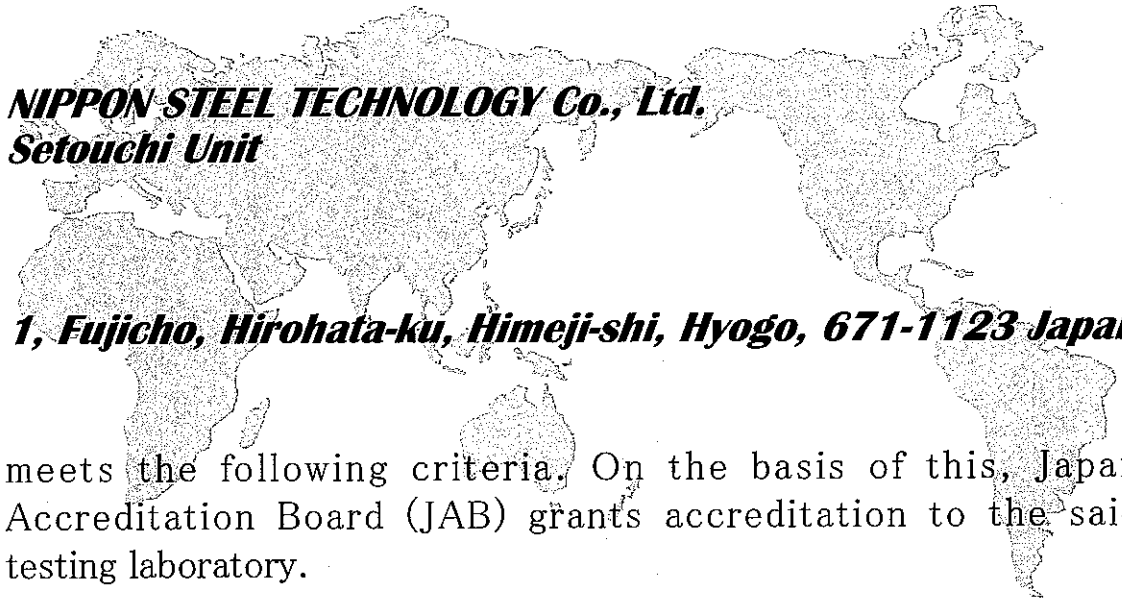
Testing Laboratory

Accreditation Certificate

Accreditation No.RTL00090



NIPPON STEEL TECHNOLOGY Co., Ltd.
Setouchi Unit

1, Fujicho, Hirohata-ku, Himeji-shi, Hyogo, 671-1123 Japan

meets the following criteria. On the basis of this, Japan Accreditation Board (JAB) grants accreditation to the said testing laboratory.

Applicable accreditation criteria	:	ISO/IEC 17025:2017 (JIS Q 17025:2018)
Scope of accreditation	:	**Mechanical Testing,** **Chemical Testing** (As described in the appendix)
Premises covered by accreditation	:	As described in the appendix.
Expiry date of accreditation	:	November 30, 2029

Revised	April 10, 2025
Renewed	December 1, 2025
Initial accreditation	November 5, 1997

Y. Miki, President

Japan Accreditation Board

Issue No. : RTL00090-20250410

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Accreditation Certificate Appendix

Type of Laboratory	Testing
Name of Laboratory	NIPPON STEEL TECHNOLOGY Co., Ltd. Setouchi Unit
Address	1, Fujicho, Hirohata-ku, Himeji-shi, Hyogo, 671-1123 Japan

1) Premises on which testing activities are performed

Name of Premises	NIPPON STEEL TECHNOLOGY Co.,Ltd. Setouchi Unit
Address	1, Fujicho, Hirohata-ku, Himeji-shi, Hyogo, 671-1123 Japan
Testing service at permanent facilities or on site testing service	■ Testing service at permanent facilities ☐ On site testing service

Scope of Accreditation

FIELD	M25 Mechanical Testing
CODE OF CIT*1	M25.A1.1
NAME OF CIT	Steel and non-ferrous metal

*1 CIT: Classification of Item to be Tested
*2 TCT: Technical Classification of Test

CODE & NAME OF TCT*2	TEST METHOD STANDARD OR STANDARD OPERATING PROCEDURE (SECTION NO. LIMITED OR EXCLUDED)	TEST CONDITION etc.
B13.1 Tensile strength & elongation test	JIS Z 2241(except appendix JA)	Test force up to 1000 kN Test specimen plate-type specimen Except percentage reduction of area
	AS 1391(Testing rate method B)	
B13.3.1 Bend test(for metallic materials)	JIS Z 2248 (except 6.3,6.4,6.5)	Test force up to 981 kN
B13.4.1 Charpy impact test	JIS Z 2242	Test temperature -80 ℃ to 80 ℃ K_N up to 500 J Striker radius : 2 mm
	AS 1544.2	
B13.6.2 Vickers hardness test	JIS Z 2244-1 JIS Z 2244-2	Test force 9.807 N to 98.07 N Vickers hardness 80 HV to 300 HV
B13.6.3 Rockwell hardness test	JIS Z 2245	Rock well hardness 40 HRB to 75 HRB Rockwell superficial hardness 40 HR30T to 75 HR30T

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CODE & NAME OF TCT*2	TEST METHOD STANDARD OR STANDARD OPERATING PROCEDURE (SECTION NO. LIMITED OR EXCLUDED)	TEST CONDITION etc.
B6.1 Test for slat rolled magnetic steel sheets	JIS C 2550 : 2000 7.2.4 a), 7.2.5 8, 9 method A	Frequency up to 400 Hz
	JIS C 2556 1.a).1) specific total loss P_s 1.a).2) peak value of the magnetic flux density $J^\wedge$ (1.b) Non-oriented electrical steel strip and Annex JA excluded)	

Scope of Accreditation

FIELD	M26 Chemical Testing
CODE OF CIT*1	M26.A1
NAME OF CIT	Metal

*1 CIT: Classification of Item to be Tested
*2 TCT: Technical Classification of Test

CODE & NAME OF TCT*2	PROPERTIES MEASURED	TEST METHOD STANDARD / STANDARD OPERATING PROCEDURE
B1.1 Gravimetric analysis: Heating gravimetric analysis	Si Measurement Range 0.82 % or more, 2.89 % or less	JIS G 1212-1
B1.1 Gravimetric analysis :Coating weight measurement	Hot-dip zinc coating mass	JIS H 0401 6.2
	Coting mass of electric zinc-coated steel sheet and strip	JIS G 3313 Annex JF
B1.2 Volumetric analysis I : Complexometric titration	Ni Measurement Range 1.00 % or more, 24.20 % or less	JIS G 1216-2
B1.2 Volumetric analysis I :Potentiometric titration	Cr Measurement Range 1.03 % or more, 24.19 % or less	JIS G 1217 4 b)

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CODE & NAME OF TCT*2	PROPERTIES MEASURED	TEST METHOD STANDARD / STANDARD OPERATING PROCEDURE
B2.1 Molecular absorption spectrometry :Ultraviolet-visible spectrometry	B Measurement Range 0.0002 % or more, 0.0102 % or less	JIS G 1227 4 e)
B2.1 Molecular absorption spectrometry :Infrared spectrometry	C Measurement Range 0.002 % or more, 0.90 % or less	JIS G 1211-3 (except 8.2a),c),10.1)
	S Measurement Range 0.002 % or more, 0.060 % or less	JIS G 1215-4 (except 10.1,10.2) (limited to sample with carbon content of 0.9 % or less)
B2.2 Atomic absorption spectrometry :Flame atomic absorption spectrometry	Pb Measurement Range 0.01 % or more, 0.24 % or less	JIS G 1257-12-1
B2.4 Atomic emission spectrometry :Spark source atomic emission spectrometry	C, Si, Mn, P, S Measurement Range ※1	JIS G 1253
B2.4 Atomic emission spectrometry :inductively coupled plasma atomic emission spectrometry : ICP-AES	Mn, Ni, Cr, Mo, Cu, Co, Ti, Nb, W, V Measurement Range ※2	JIS G 1258-2
	Si, P, Al Measurement Range ※3	JIS G 1258-3
	Hot dip galvanized bath (Al, Mg, Si, Fe, Ni) Measurement Range Al : 0.1 % or more, 15 % or less Mg : 0.1 % or more, 5 % or less Si : 0.01 % or more, 0.5 % or less Fe : 0.01 % or more, 0.1 % or less Ni : 0.01 % or more, 0.1 % or less	Test methods for hot dip galvanized bath Technical Standard : TS・QI-M-3-07-01-01 TS・QI-M-8-05-04-01
B3.1	Coating mass of hot-dipped zinc-coated steel sheet and strip	JIS G 3302 annex JC

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CODE & NAME OF TCT*2	PROPERTIES MEASURED	TEST METHOD STANDARD / STANDARD OPERATING PROCEDURE
X-ray fluorescence analysis:XRF	Coating mass of electric zinc-coated steel sheet and strip	JIS G 3313 annex JD
	Coating mass of hot-dipped zinc-aluminum-magnesium alloy-coated steel sheet and strip	JIS G 3323 annex C
B4.3 Specific thermal conductmetry conductivity measurement	N Measurement Range 0.0008 % or more, 0.417 % or less	JIS G 1228-3 (except 11.2)

(Note)
※1 :
C : 0.014 % or more, 0.312 % or less
Si : 0.004 % or more, 0.80 % or less
Mn : 0.032 % or more, 1.69 % or less
P : 0.002 % or more, 0.16 % or less
S : 0.0032 % or more, 0.041 % or less
※2 :
Mn : 0.019 % or more, 9.16 % or less
Ni : 0.017 % or more, 24.20 % or less
Cr : 0.014 % or more, 24.19 % or less
Mo : 0.011 % or more, 8.35 % or less
Cu : 0.011 % or more, 3.39 % or less
Co : 0.020 % or more, 16.10 % or less
Ti : 0.004 % or more, 2.12 % or less
Nb : 0.0101 % or more, 2.99 % or less
W : 0.10 % or more, 6.20 % or less
V : 0.011 % or more, 1.94 % or less
※3 :
Si : 0.105 % or more, 1.05 % or less
P : 0.003 % or more, 0.076 % or less
Al : 0.005 % or more, 1.23 % or less

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(Notes on Accreditation Certificate)

The laboratory is only accredited for laboratory activities outlined within the methods listed above. Reference to any other activity within these standards, such as risk management or risk assessment, does not fall within the laboratory's accredited capabilities.

When version information of standards or methods are not identified in the scope, laboratories shall adapt to use the current version of such standards within six months at latest from the issued date of current version.

Notes for EMC test laboratory for FCC

Accreditation does not imply acceptance to the FCC equipment authorization program. Please see the FCC website (https://apps.fcc.gov/oetcf/eas/) for a listing of FCC approved laboratories.

Japan Accreditation Board