



JAB



Testing Laboratory
Accreditation
Certificate

Accreditation No. RTL00020

NIPPON STEEL TECHNOLOGY Co., Ltd.
Muroran Unit

12, Nakamachi, Muroran-shi, Hokkaido, 050-0087 Japan

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

Applicable accreditation criteria	: JIS Q 17025:2005 (ISO/IEC 17025:2005)
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	: September 30, 2021

Revised (20)	May 20, 2019
Renewed (6)	September 13, 2017
Initial accreditation	September 11, 1997

Y. Iizuka, President

Japan Accreditation Board

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Type of Laboratory	Testing Laboratory
Name of Laboratory	NIPPON STEEL TECHNOLOGY Co., Ltd. Muroran Unit
Address	12, Nakamachi, Muroran-shi, Hokkaido, 050-0087 Japan

1) Premises on which testing activities are performed

Name of Premises	NIPPON STEEL TECHNOLOGY Co.,Ltd. Muroran Unit	
Address of Premises	Postal code	050-0087
	Address	12, Nakamachi, Muroran-shi, Hokkaido, Japan
Testing service at permanent facilities or on site testing service	<input checked="" type="checkbox"/> Testing service at permanent facilities <input type="checkbox"/> On site testing service	

Scope of Accreditation

FIELD	M25 Mechanical Testing
CODE OF CIT*1	M25.A.1.1
NAME OF CIT	Steel, Nonferrous 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.
B2.2.1 Method of measuring case depth hardened by carburizing treatment	JIS G 0561	
B2.1.1 Macroscopic examination by etching	JIS G 0553 6.1 a)	
B2.1.3 Grain size test	JIS G 0551 6.2, 6.3.2, 7.2, annex JA.6, JA.8 ASTM E 112 A3.2.1.2, A3.2.1.5	
B2.1.4 Microscopic testing for nonmetallic inclusions	JIS G 0555 5, annex 1 ASTM E45 12. Method A, 15.Method D	
B2.1.5 Macro streak flaw test	JIS G 0556 5	
B2.2.2 Measuring decarburized depth test	JIS G 0558 4 a)	

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CODE & NAME OF TCT*2	TEST METHOD STANDARD OR STANDARD OPERATING PROCEDURE (SECTION NO. LIMITED OR EXCLUDED)	TEST CONDITION etc.
B13.1 Tensile, elongation test	JIS Z 2241	Property: Upper yield point, Proof stress, Tensile strength, Elongation after fracture, Reduction of area Test force up to 2000 kN
B13.3 Bend test, Transverse test	JIS Z 2248 6.1	
B13.4.1 Charpy impact test	JIS Z 2242 (except annex)	Testing temperature : Room temperature (23 °C ± 5 °C) K2 up to 300 J
B13.6.1 Brinell hardness test	JIS Z 2243-1 JIS Z 2243-2	Brinell hardness 95.5 HBW 10/3000 to 653 HBW 10/3000 Brinell hardness 95.5 HBW 5/750 to 653 HBW 5/750
B13.6.2 Vickers hardness test	JIS Z 2244	Vickers hardness 100 HV to 500 HV Test force 98.07 N to 196.1 N
B13.6.3 Rockwell hardness test	JIS Z 2245	Rockwell hardness 50 HRB to 100 HRB Rockwell hardness 10 HRC to 60 HRC

Scope of Accreditation

FIELD	M26 Chemical Testing
CODE OF CIT*1	M26.A1
NAME OF CIT	Metal:iron and steel

*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
B1.2 Volumetric analysis I: Compleximetry	Ni 0.3 % to 30 %	JIS G 1216 4 (2) annex2

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Type of Laboratory	Testing Laboratory
Name of Laboratory	NIPPON STEEL TECHNOLOGY Co., Ltd. Muroran Unit
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CODE & NAME OF TCT*2	PROPERTIES MEASURED	TEST METHOD STANDARD / STANDARD OPERATING PROCEDURE
B1.2 Volumetric analysis I: redox titration	Cr 0.1 % to 24 %	JIS G 1217 4 a) annex1
B2.1 Molecular absorption spectrometry: Infrared spectrometry	C 0.001 % to 4.65 %	JIS G 1211-3 [except 8.4a),b)]
	S 0.0010 % to 0.50 %	JIS G 1215-4 [except 7.6.1, 7.6.2]
	O 0.0005 % to 0.05%	JIS G 1239 [except 9.2.1, 13.2]
B4.3 Specific thermal conductivity measurement	N 0.0009 % to 0.050 %	JIS G 1228 4 d) annex4
B2.1 Molecular absorption spectrometry: Ultraviolet-visible spectrometry	As 0.005 % to 0.10 %	JIS G 1225 4 a) annex1
	B 0.0001 % to 0.0009 %	JIS G 1227 4 b) annex2
	B 0.0002 % to 0.009 %	JIS G 1227 4 e) annex5
B2.2 Atomic absorption spectrometry: flame atomic absorption spectrometry	Sn 0.002 % to 0.02 %	JIS G 1257-11-1
	Pb 0.01 % to 0.30 %	JIS G 1257-12-1
B2.4 Atomic emission spectrometric: Spark discharge atomic emission spectrometric analysis	※1	JIS G 1253
B2.4 Atomic emission spectrometric: ICP-AES	※2	JIS G 1258-1
	Nb 0.001 % to 0.60 %	JIS G 1258-4
B3.1 X-ray fluorescent analysis	※3	JIS G 1256

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CODE & NAME OF TCT*2	PROPERTIES MEASURED	TEST METHOD STANDARD / STANDARD OPERATING PROCEDURE
(Note)		
※1 : C 0.003 % to 1.2 %, Si 0.002 % to 2.0 %, Mn 0.05 % to 2.4 %, P 0.002 % to 0.4 %, S 0.002 % to 0.4 %, Ni 0.002 % to 5.0 %, Cr 0.002 % to 3.5 %, Mo 0.001 % to 1.5 %, Cu 0.01 % to 1.48 %, V 0.001 % to 0.4 %, Ti 0.001 % to 0.49 %, Al 0.001 % to 0.12 %, As 0.001 % to 0.05 %, Sn 0.001 % to 0.05 %, N 0.004 % to 0.018 %, Nb 0.001 % to 0.22 %		
※2 : Si 0.01 % to 0.60 %, Mn 0.01 % to 2.00 %, P 0.003 % to 0.10 %, Cu 0.01 % to 0.50 %, Ni 0.01 % to 4.00 %, Cr 0.01 % to 3.00 %, Mo 0.01 % to 1.00 %, V 0.002 % to 0.50 %, Al 0.004 % to 0.10 %, Co 0.003 % to 0.20 %, Ti 0.001 % to 0.30 %		
※3 : Si 0.002 % to 2.0 %, Mn 0.05 % to 2.4 %, P 0.002 % to 0.4 %, S 0.08 % to 0.4 %, Ni 0.002 % to 5.0 %, Cr 0.002 % to 3.5 %, Mo 0.001 % to 1.5 %, Cu 0.01 % to 1.48 %, V 0.001 % to 0.4 %, Ti 0.001 % to 0.49 %, As 0.002 % to 0.05 %, Sn 0.002 % to 0.05 %, Nb 0.001 % to 0.22 %		

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