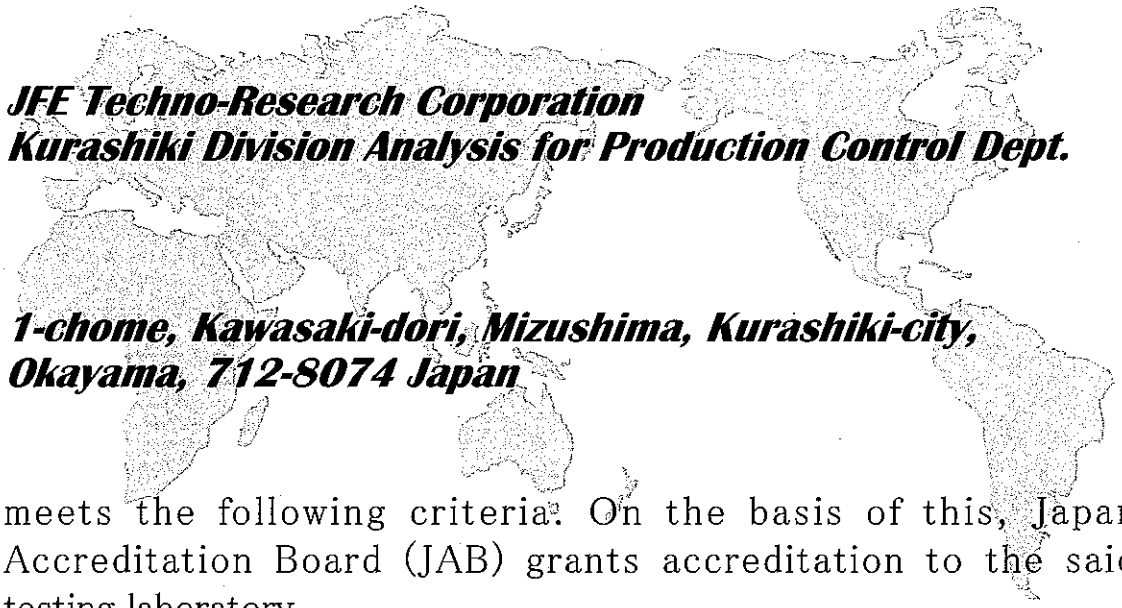
Testing Laboratory

Accreditation Certificate

Accreditation No.RTL00070



JFE Techno-Research Corporation
Kurashiki Division Analysis for Production Control Dept.

1-chome, Kawasaki-dori, Mizushima, Kurashiki-city,
Okayama, 712-8074 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	:	**Chemical Testing** (As described in the appendix)
Premises covered by accreditation	:	As described in the appendix.
Expiry date of accreditation	:	November 30, 2029

Revised	July 5, 2025
Renewed	December 1, 2025
Initial accreditation	November 5, 1997

Y. Miki, President
Japan Accreditation Board

Issue No. : RTL00070-20250705

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Accreditation Certificate Appendix

Type of Laboratory	Testing
Name of Laboratory	JFE Techno-Research Corporation Kurashiki Division Analysis for Production Control Dept.
Address	1-chome, Kawasaki-dori, Mizushima, Kurashiki-city, Okayama, 712-8074 Japan

1) Premises on which testing activities are performed

Name of Premises	JFE Techno-Research Corporation Kurashiki Division Analysis for Production Control Dept.
Address	1-chome, Kawasaki-dori, Mizushima, Kurashiki-city, Okayama, 712-8074 Japan
Testing service at permanent facilities or on site testing service	■ Testing service at permanent facilities ☐ On site testing service

Scope of Accreditation

FIELD	M26 Chemical Testing
CODE OF CIT*1	M26.A1
NAME OF CIT	Metal: Iron and steel, Related products

*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
B2.1 Molecular absorption spectrometry: Infrared spectrometry	C Measurement Range 0.001 % or more, 4.5 % or less	JIS G 1211-3 (except 10.1)
B2.1 Molecular absorption spectrometry: Infrared spectrometry	C Measurement Range 0.0005% or more, 0.01 % or less	JIS G 1211-4 (except 12.1, 12.2.1b)c), 12.2.2)
B1.1 Gravimetric analysis: Precipitation gravimetric analysis	Si Measurement Range 0.10 % or more, 3.19 % or less	JIS G 1212 -1
B2.1 Molecular absorption spectrometry: Ultraviolet-visible spectrometry	Si Measurement Range 0.01 % or more, 1.0 % or less	JIS G 1212-2
B2.1 Molecular absorption spectrometry: Ultraviolet-visible spectrometry	Mn Measurement Range 0.01 % or more, 7.09 % or less	JIS G 1213 4 b)
B2.1 Molecular absorption spectrometry: Ultraviolet-visible spectrometry	P Measurement Range 0.005 % or more, 0.05 % or less	JIS G 1214 -1

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CODE & NAME OF TCT*2	PROPERTIES MEASURED	TEST METHOD STANDARD / STANDARD OPERATING PROCEDURE
B2.1 Molecular absorption spectrometry: Infrared spectrometry	S Measurement Range 0.001 % or more, 0.06 % or less	JIS G 1215-4 (except 10.1, 10.2)
B1.2 Volumetric analysis Ⅰ: Complexometric titration	Ni Measurement Range 0.1 % or more, 30.0 % or less	JIS G 1216-2
B2.1 Molecular absorption spectrometry: Ultraviolet-visible spectrometry	Mo Measurement Range 0.001 % or more, 5.74 % or less	JIS G 1218 -2
B2.1 Molecular absorption spectrometry: Ultraviolet-visible spectrometry	B Measurement Range 0.0009 % or more, 0.0106 % or less	JIS G 1227 4 d)
B4.3 Specific thermal conductivity measurement	N Measurement Range 0.0008 % or more, 0.032 % or less	JIS G 1228-3 (except 11.2, 13.1)
B2.4 Atomic emission spectrometry: Spark discharge atomic emission spectrometry	C, Si, Mn, P, S, Cu, Ni, Cr, Mo, B, V, Al, Nb, Ti, Co Measurement Range *1	JIS G 1253
B3.1 X-ray fluorescence analysis	Si, Mn, P, S, Ni, Cr, Mo, Cu, V, Ti Measurement Range *2	JIS G 1256
B2.2 Atomic absorption spectrometry: Flame atomic absorption spectrometry	Ni Measurement Range 0.01 % or more, 1.0 % or less	JIS G 1257-3
B2.2 Atomic absorption spectrometry: Flame atomic absorption spectrometry	Cr Measurement Range 0.01 % or more, 1.3 % or less	JIS G 1257-4
B2.2 Atomic absorption spectrometry: Flame atomic absorption spectrometry	Cu Measurement Range 0.01 % or more, 0.6 % or less	JIS G 1257-6
B2.2 Atomic absorption spectrometry: Flame atomic absorption spectrometry	Al Measurement Range 0.005 % or more, 0.1 % or less	JIS G 1257-10-1

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B2.2 Atomic absorption spectrometry: Flame atomic absorption spectrometry	acid-soluble Al Measurement Range 0.005 % or more, 0.05 % or less	JIS G 1257-10-2
B2.2 Atomic absorption analysis: Flameless atomic absorption spectrometry	As Measurement Range 0.0005 % or more, 0.0030 % or less	JIS G 1257-19-1
B2.4 Atomic emission spectrometry: ICP-AES	Si, Mn, P, Ni, Cr, Mo、Cu, V, Co, Ti, Al Measurement Range *3	JIS G 1258-1
B2.4 Atomic emission spectrometry: ICP-AES	Mn, Ni, Cr, Mo, Cu, W, V, Co, Ti, Nb Measurement Range *4	JIS G 1258-2
B2.4 Atomic emission spectrometry: ICP-AES	Ti, Al Measurement Range Ti : 0.006 % or more, 2.5 % or less Al : 0.005 % or more, 1.23 % or less	JIS G 1258-3
B2.4 Atomic emission spectrometry: ICP-AES	Nb Measurement Range 0.0101 % or more, 0.49 % or less	JIS G 1258-4
B2.2 Atomic absorption spectrometry: Flame atomic absorption spectrometry	Cd, Pb Measurement Range Cd : 10 mg/kg or more, 100 mg/kg or less Pb : 10 mg/kg or more, 1000 mg/kg or less	IEC 62321-5
B2.2 Atomic absorption spectrometry: Cold vapor atomic absorption spectrometry	Hg Measurement Range 1 mg/kg or more, 1000 mg/kg or less	IEC 62321-4
B2.1 Molecular absorption spectrometry: Ultraviolet-visible spectrometry	Cr(VI) Measurement Range 0.05 μg/cm^2 or more	JIS H 8625 Annex 2 4.1

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CODE & NAME OF TCT*2	PROPERTIES MEASURED	TEST METHOD STANDARD / STANDARD OPERATING PROCEDURE

(Note)

*1 :

C	**0.01 % or more,**	**1.03 % or less**
Si	**0.02 % or more,**	**3.02 % or less**
Mn	**0.034 % or more,**	**1.88 % or less**
P	**0.006 % or more,**	**0.128 % or less**
S	**0.0004 % or more,**	**0.036 % or less**
Cu	**0.01 % or more,**	**0.44 % or less**
Ni	**0.01 % or more,**	**9.94 % or less**
Cr	**0.01 % or more,**	**15.27 % or less**
Mo	**0.001 % or more,**	**2.08 % or less**
B	**0.0001 % or more,**	**0.008 % or less**
V	**0.003 % or more,**	**1.50 % or less**
Al	**0.007 % or more,**	**1.06 % or less**
Nb	**0.011 % or more,**	**0.223 % or less**
Ti	**0.006 % or more,**	**0.35 % or less**
Co	**0.003 % or more,**	**0.20 % or less**

*2 :

Si	**0.03 % or more,**	**3.02 % or less**
Mn	**0.034 % or more,**	**1.88 % or less**
P	**0.006 % or more,**	**0.128 % or less**
S	**0.0021 % or more,**	**0.036 % or less**
Ni	**0.010 % or more,**	**9.94 % or less**
Cr	**0.01 % or more,**	**15.27 % or less**
Mo	**0.001 % or more,**	**2.08 % or less**

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Cu 0.01 % or more, 0.44 % or less
V 0.003 % or more, 1.50 % or less
Ti 0.006 % or more, 0.35 % or less

*3 :

Si 0.01 % or more, 0.60 % or less
Mn 0.01 % or more, 2.00 % or less
P 0.003 % or more, 0.10 % or less
Ni 0.01 % or more, 4.00 % or less
Cr 0.01 % or more, 3.00 % or less
Mo 0.01 % or more, 1.20 % or less
Cu 0.01 % or more, 0.50 % or less
V 0.002 % or more, 0.50 % or less
Co 0.003 % or more, 0.20 % or less
Ti 0.006 % or more, 0.30 % or less
Al 0.005 % or more, 0.10 % or less

*4 :

Mn : 0.01 % or more, 7.09 % or less
Ni : 0.01 % or more, 30.0 % or less
Cr : 0.01 % or more, 24.68 % or less
Mo : 0.01 % or more, 5.47 % or less
Cu : 0.01 % or more, 1.47 % or less
W : 0.10 % or more, 10.0 % or less
V : 0.01 % or more, 3.25 % or less
Co : 0.01 % or more, 12.46 % or less
Ti : 0.006 % or more, 1.23 % or less
Nb : 0.0101 % or more, 0.49 % 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