Testing Laboratory

Accreditation Certificate

Accreditation No.RTL00590

NGK Corporation
NGK High Voltage Laboratory

1155, Tagami, Futaebori, Komaki-shi, Aichi, 485-8566
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	:	**Electrical Testing** (As described in the appendix)
Premises covered by accreditation	:	As described in the appendix.
Expiry date of accreditation	:	February 28, 2030

Revised	June 15, 2026
Renewed	March 1, 2026
Initial accreditation	February 16, 1999

Y. Miki, President
Japan Accreditation Board

Issue No. : RTL00590-20260615

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Accreditation Certificate Appendix

Type of Laboratory	Testing
Name of Laboratory	NGK Corporation NGK High Voltage Laboratory
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1) Premises on which testing activities are performed

Name of Premises	NGK Corporation NGK High Voltage Laboratory
Address	1155, Tagami, Futaebori, Komaki-shi, Aichi, 485-8566 Japan
Testing service at permanent facilities or on site testing service	■ Testing service at permanent facilities ☐ On site testing service

Scope of Accreditation

FIELD	M21 Electrical Testing

CODE OF CLASSIFICATION, NAME	TEST METHOD STANDARD
M21.2 High-voltage testing M21.2.1 DC Voltage Tests	IEC 60060-1 4, 5 IEC 60060-2 4, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 5.10, 5.13, 6 IEC 60437 NEMA Pub. No.107 DC 100 kV ≦Test Voltage≦ DC 800 kV, Positive and Negative Polarities IEC TS 61245 JEC 0203 5.7.1, 5.7.2, 5.7.3, 5.7.5 DC 100 kV ≦Test Voltage≦ DC 540 kV, Positive and Negative Polarities JEC-0204 4, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 5.10, 5.13, 7 IEC 61325 15 DC 100 kV ≦Test Voltage≦ DC 800 kV, Positive and Negative Polarities
M21.2 High-voltage testing M21.2.2 AC Voltage Tests	IEC 60060-1 4, 6 IEC 60060-2 4, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 5.10, 5.13, 7 JEC-0203 6.7.1, 6.7.2, 6.7.3, 6.7.4, 6.7.6 JEC-0204 4, 5.1, 5.2, 5.3, 5.4, 5.5, 5.6, 5.7, 5.8, 5.9, 5.10, 5.13, 8 ANSI/NEMA C29.1 4.1, 4.2, 4.3, 4.4, 4.5 ANSI/NEMA C29.11 8.2.1, 8.2.2, 8.2.3, 8.2.4 AC 10 kV≦Test Voltage≦ AC 1500 kV IEC 60437 NEMA Pub. No.107 IEC 60507 JEC 0203 6.7.5 ANSI/NEMA C29.1 4.9 ANSI/NEMA C29.11 8.2.8 AC 5 kV≦Test Voltage≦ AC 1000 kV IEC 60168 4.7, 4.8

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CODE OF CLASSIFICATION, NAME	TEST METHOD STANDARD
	IEC 60383-1 13 IEC 60383-2 10 IEC 60137 8.2 IEC 62217 9.2.4, 9.2.7.4 IEC 61109 10.2.5 IEC 61462 7.2.3, 7.2.6.3 IEC 62231 8.2.3, 9.2 IEC TS 62896 8.2.3.4, 9.2 JIS C 3801-1 7.1, 7.2, 7.3, 7.4 JIS C 3801-2 7.1, 7.2, 7.3, 7.4 JEC-5201 8 (4) JEC-5202 8.5 JEC-5205 8 (4) JEC-5206 8 (4) JEC-5207 8 (4) JEC-5208 8 (4) ANSI/NEMA C29.2A 8.2.3, 8.2.4 ANSI/NEMA C29.2B 8.2.1, 8.2.2 ANSI/NEMA C29.5 8.2.1, 8.2.2 ANSI/NEMA C29.6 8.2.1, 8.2.2 ANSI/NEMA C29.7 8.2.1, 8.2.2 ANSI/NEMA C29.9 8.2.1 ANSI/NEMA C29.12 9.1, 9.2 ANSI/NEMA C29.13 9.1, 9.2 ANSI/NEMA C29.17 8.1, 8.2 ANSI/NEMA C29.18 9.1, 9.2 ANSI/NEMA C29.19 8.1 AC 10 kV≦Test Voltage≦ AC 1500 kV IEC 60383-1 14 IEC 61109 10.2.7 JEC-5202 8.17 ANSI/NEMA C29.2A 8.2.6 ANSI/NEMA C29.2B 8.2.4 ANSI/NEMA C29.5 8.2.4 ANSI/NEMA C29.6 8.2.4 ANSI/NEMA C29.7 8.2.4 ANSI/NEMA C29.9 8.2.4 ANSI/NEMA C29.12 9.4 ANSI/NEMA C29.13 9.4 ANSI/NEMA C29.17 8.4 ANSI/NEMA C29.18 9.4 ANSI/NEMA C29.19 8.4

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CODE OF CLASSIFICATION, NAME	TEST METHOD STANDARD
	AC 5 kV≦Test Voltage≦ AC 1000 kV
M21.2 High-voltage testing M21.2.3 Impulse Voltage Tests	IEC 60060-1 4, 7, 8 IEC 60060-2 4, 5, 8, 9 JEC-0203 7.7, 8.7 JEC-0204 4, 5, 9, 10 ANSI/NEMA C29.1 4.1, 4.7, 4.8 ANSI/NEMA C29.11 8.2.5, 8.2.6, 8.2.7 Lightning Impulse Voltage : 100 kV ≦Test Voltage≦ 3000 kV, Positive and Negative Polarities Switching Impulse Voltage : 400 kV ≦Test Voltage≦ 2300 kV, Positive and Negative Polarities IEC 61211 GB/T 20642 Lightning Impulse Voltage : 100 kV ≦Test Voltage≦ 600 kV, Positive and Negative Polarities Lightning Impulse Voltage : 1000 kV/μs≦Rate of Rise≦3000 kV/μs, Positive and Negative Polarities IEC 60168 4.5, 4.6 IEC 60383-1 12 IEC 60383-2 9, 11 IEC 60137 8.4, 8.5 IEC 61109 10.2.4, 10.2.6 IEC 62231 9.2 IEC 61325 14 IEC TS 62896 9.2 JIS C 3801-1 7.8, 7.9, 7.10, 7.11, 7.12, 7.13 JIS C 3801-2 7.6, 7.7, 7.8, 7.9, 7.10, 7.11 JEC-5201 8 (5) JEC-5202 8.6, 8.7 JEC-5205 8 (5) JEC-5206 8 (5) JEC-5207 8 (5) JEC-5208 8 (5) ANSI/NEMA C29.2A 8.2.5 ANSI/NEMA C29.2B 8.2.3 ANSI/NEMA C29.5 8.2.3 ANSI/NEMA C29.6 8.2.3 ANSI/NEMA C29.7 8.2.3 ANSI/NEMA C29.9 8.2.2, 8.2.3 ANSI/NEMA C29.10 8.2.2 ANSI/NEMA C29.12 9.3

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CODE OF CLASSIFICATION, NAME	TEST METHOD STANDARD
	ANSI/NEMA C29.13 9.3 ANSI/NEMA C29.17 8.3 ANSI/NEMA C29.18 9.3 ANSI/NEMA C29.19 8.2, 8.3 Lightning Impulse Voltage : 100 kV ≦Test Voltage≦ 3000 kV, Positive and Negative Polarities Switching Impulse Voltage : 400 kV ≦Test Voltage≦ 2300 kV, Positive and Negative Polarities IEC 61462 7.2.6.2 IEC 62217 9.2.7.3 IEC TS 62896 8.2.3.3 CSA－C411.1-16 6.6 Lightning Impulse Voltage : 100 kV ≦Test Voltage≦ 600 kV, Positive and Negative Polarities Lightning Impulse Voltage : 1000 kV/μs≦Rate of Rise≦3000 kV/μs, Positive and Negative Polarities

(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