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JIS C 3801-1 : 1999

Testing method for insulators— Part 1 : Insulators for overhead line

ICS 29.080.10

Descriptors : electric insulators, overhead line conductors, electrical porcelain, testing

Reference number : **JIS C 3801-1 : 1999 (E)**

Foreword

This translation has been made based on the original Japanese Industrial Standard established by the Minister of International Trade and Industry through deliberations at the Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently **JIS C 3801** : 1993 is replaced with **JIS C 3801-1** to **-3** : 1999.

In this revision, the contents of **JIS C 3801** : 1993 and **JIS C 3804** : 1982 are divided into three parts according to aimed products, and the International Standards corresponding to this part are stated as the Annexes (normative) for being in conformity with International Standards.

Attention is drawn to the possibility that some parts of this Standard may conflict with a patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have technical properties. The relevant Minister and the Japanese Industrial Standards Committee are not responsible for identifying the patent right, application for a patent after opening to the public, utility model right or application for registration of utility model after opening to the public which have the said technical properties.

JIS C 3801 consists of the following parts with the general title *Testing method for insulators.*

Part 1 : *Insulators for overhead line*
Part 2 : *Post insulators for station*
Part 3 : *Hollow insulators*

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In the event of any doubts arising as to the contents, the original JIS is to be the final authority.

Contents

Testing method for insulators— Part 1 : Insulators for overhead line

Introduction This Japanese Industrial Standard has been prepared based on **IEC 60383-1** *Insulators for overhead lines with a nominal voltage above 1 000 V—Part 1 : Ceramic or glass insulator units for a.c. systems—Definitions, test methods and acceptance criteria* published in 1993 as the fourth edition and **IEC 60383-2** *Insulators for overhead lines with a nominal voltage above 1 000 V—Part 2 : Insulator strings and insulator sets for a.c. systems—Definitions, test methods and acceptance criteria* published in 1993 as the first edition in such a manner that the testing method for insulators specified in the former **JIS** is adopted as the text and the International Standards corresponding to this **JIS** are stated in Annex 1 and Annex 2 without modifying the technical contents. However, the testing solution for porosity test is specified by modifying the contents of the International Standard to precede the safety.

The **IEC** Standard number is based on the new numbering system of **IEC** Standards put in force on January 1st 1997, and the Standard published before the said date is numbered by adding 60000 to the former number. This is only the change in the numbering system and the contents remain unchanged.

1 Scope This Standard specifies testing methods for porcelain suspension insulators, long rod insulators, line post insulators, pin insulators, etc. to be used for overhead lines (hereafter referred to as "insulators").

Either of the specifications stated in this text or those stated in Annex (normative) shall be applied throughout to a product, and it is not allowed to apply the items or contents in the text and Annex confusedly.

Remarks : The International Standards corresponding to this Standard are given below.

IEC 60383-1 : 1993 *Insulators for overhead lines with a nominal voltage above 1 000 V—Part 1 : Ceramic or glass insulator units for a.c. systems—Definitions, test methods and acceptance criteria*

IEC 60383-2 : 1993 *Insulators for overhead lines with a nominal voltage above 1 000 V—Part 2 : Insulator strings and insulator sets for a.c. systems—Definitions, test methods and acceptance criteria*

2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent editions of the standards indicated below shall be applied.

JIS C 3802 *Permissible limits of visual defects for insulating porcelains*

JIS C 3803 *Glossary of terms for insulator and bushing*

JIS H 0401 *Methods of test for hot dip galvanized coatings*

JIS K 8891 *Methanol*