



JAPANESE
INDUSTRIAL
STANDARD

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Japanese Standards Association

JIS C 2320 : 1999

Electrical insulating oils

ICS 29.040.10

Descriptors : insulating oils, mineral oils, liquid electrical insulating materials, electrical insulation, electrical insulating materials, capacitors, electric cables, transformers, oil circuit-breakers

Reference number : JIS C 2320 : 1999 (E)

Foreword

This translation has been made based on the original Japanese Industrial Standard revised 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 2320 : 1993** is replaced with **JIS C 2320 : 1999**.

In the International Standard corresponding to this Standard, sampling methods and test methods of electrical insulating oils are also specified, but in this Standard, the quality of oils and the like are specified. The sampling methods and test methods are specified in **JIS C 2101** *Testing method of electrical insulating oils*.

Date of Establishment: 1950-07-15

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Investigated by: Japanese Industrial Standards Committee

Divisional Council on Electricity

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

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Electrical insulating oils

Introduction This Japanese Industrial Standard has been prepared based on the corresponding International Standards

- IEC 60296 : 1982 *Specification for unused mineral insulating oils for transformers and switchgear Amendment No. 1 (1986)*
- IEC 60465 : 1988 *Specification for unused insulating mineral oils for cables with oil ducts*
- IEC 60836 : 1988 *Specification for silicone liquids for electrical purposes*
- IEC 60867 : 1993 *Insulating liquids—Specifications for unused liquids based on synthetic aromatic hydrocarbons*
- IEC 60963 : 1988 *Specification for unused polybutenes*

in such a manner that the insulating oils specified in the former **JIS** are specified in the text and the specifications in these corresponding International Standards are adopted in the Annex.

1 Scope This Japanese Industrial Standard specifies electrical-insulating oils before use for oil-impregnated capacitors, oil-filled cables, oil-immersed transformers, oil circuit breakers, etc. (hereafter referred to as “insulating oils”).

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

- IEC 60296 : 1982 *Specification for unused mineral insulating oils for transformers and switchgear Amendment No. 1 (1986)*
- IEC 60465 : 1988 *Specification for unused insulating mineral oils for cables with oil ducts*
- IEC 60836 : 1988 *Specification for silicone liquids for electrical purposes*
- IEC 60867 : 1993 *Insulating liquids—Specifications for unused liquids based on synthetic aromatic hydrocarbons*
- IEC 60963 : 1988 *Specification for unused polybutenes*

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 2101 *Testing methods of electrical insulating oils*
- JIS Z 1601 *Steel drums for liquid*
- JIS Z 1602 *18 liter metal cans*
- JIS Z 1620 *Steel pails*