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JIS C 9304: 1999

Spot welding electrodes

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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 9304**: 1992 is replaced with **JIS C 9304**: 1999.

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.

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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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Spot welding electrodes

Introduction This Japanese Industrial Standard has been prepared based on ISO 1089: 1980 Electrode taper fits for spot welding equipment—Dimensions, ISO 5183-1: 1988 Resistance welding equipment—Electrode adaptors, male taper 1: 10—Part 1: Conical fixing, taper 1: 10, ISO 5183-2: 1988 Resistance spot welding—Electrode adaptors, male taper 1: 10—Part 2: Parallel shank fixing for end-thrust electrodes, ISO 5184: 1979 Straight resistance spot welding electrodes, ISO 5821: 1979 Resistance spot welding electrode caps, ISO 5829: 1984 Resistance spot welding—Electrode adaptors, female taper 1: 10 and ISO 5830: 1984 Resistance spot welding—Male electrode caps, but specification items (definitions) and specification contents (shapes of electrode tips and dimensions of tapered parts) not specified in the corresponding International Standards are added.

Some parts of "designation of product" and "marking" in ISO's are not adopted.

1 Scope This Standard specifies spot welding electrodes to be used in a spot welding equipment with an electrode force not exceeding 40 kN (hereafter referred to as "electrodes").

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

ISO 1089: 1980 Electrode taper fits for spot welding equipment—Dimensions

ISO 5183-1: 1988 Resistance welding equipment—Electrode adaptors, male taper 1: 10—Part 1: Conical fixing, taper 1:10

ISO 5183-2: 1988 Resistance spot welding—Electrode adaptors, male taper 1: 10—Part 2: Parallel shank fixing for end-thrust electrodes

ISO 5184: 1979 Straight resistance spot welding electrodes

ISO 5821:1979 Resistance spot welding electrode caps

ISO 5829: 1984 Resistance spot welding—Electrode adaptors, female taper 1:10

ISO 5830: 1984 Resistance spot welding—Male electrode caps

2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. If the indication of the year of coming into effect (or the year of publication) is given to these referred standards, only the edition of indicated year constitutes the provision of this Standard but the revision and amendment made thereafter are not applied. The normative references without the indication of the year of coming into effect (or the year of publication) apply limiting only to the most recent edition (including amendments).

JIS C 9305 General rule for resistance welding machines

Remarks: **ISO/FDIS 669** Electric resistance welding—Resistance welding equipment—Mechanical and electrical requirements is equivalent to the above standard.

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