JIS

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JIS Z 3341 : 1999

Copper and copper alloy rods and solid wires for inert gas shielded arc welding

ICS 25.160.20

Descriptors : gas-shielded welding, arc welding, wires, welding rods, filler wire, copper, copper alloys, gas metal-arc welding, gas tungsten-arc welding

Reference number : **JIS Z 3341 : 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 Z 3341** : 1993 is replaced with **JIS Z 3341** : 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.

This revision employs **JIS Z 3200** : 1999 *Welding consumables—Technical delivery conditions for welding filler metals—Type of product, dimensions, tolerances and marking* as a normative reference.

Date of Establishment: 1983-03-01

Date of Revision: 1999-09-20

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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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Copper and copper alloy rods and solid wires for inert gas shielded arc welding

1 Scope This Japanese Industrial Standard specifies copper and copper alloy rods and solid wires for inert gas shielded arc welding such as the TIG welding and the MIG welding (hereafter referred to as "rods and wires").

2 Normative references The standards given in Attached Table 1 contain provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent editions of the standards shall be applied.

3 Classification The rods and wires shall be classified according to the chemical composition of the rods and wires, as shown in Table 1.

Table 1 Classification of rods and wires

Classification of rod and wire	Composition system
YCu	Copper
YCuSi A	Silicon bronze
YCuSi B	
YCuSn A	Phosphor bronze
YCuSn B	
YCuAl	Aluminium bronze
YCuAlNi A	Special aluminium bronze
YCuAlNi B	
YCuAlNi C	
YCuNi-1	Cupro-nickel
YCuNi-3	

Remarks : The symbols for classification of the rods and wires shall be as shown in the following example.

Example : Y Cu
- Cu: Chemical composition of rod and wire
- Y: Rod or wire

4 Quality

4.1 Appearance of rods and wires The appearance of rods and wires shall be in accordance with clause **3** of **JIS Z 3200**.