

JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

JIS Z 3351 : 1999

**Submerged arc welding solid wires
for carbon steel and low alloy steel**

ICS 25.160.20

Descriptors : low-alloy steels, unalloyed steels, submerged arc welding, welding electrodes, filler wire, welding rods

Reference number : JIS Z 3351 : 1999 (E)

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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 Z 3351 : 1988** is replaced with **JIS Z 3351 : 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: 1988-01-01

Date of Revision: 1999-09-20

Date of Public Notice in Official Gazette: 1999-09-20

Investigated by: Japanese Industrial Standards Committee
Divisional Council on Welding

JIS Z 3351 : 1999, First English edition published in 2002-05

Translated and published by: Japanese Standards Association
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In the event of any doubts arising as to the contents,
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Printed in Japan

Submerged arc welding solid wires for carbon steel and low alloy steel

1 Scope This Japanese Industrial Standard specifies the steel solid wires (hereafter referred to as “wires”) used for submerged arc welding for carbon steel and low alloy steel (high tensile strength steel, heat resisting steel, steels for low temperature service and atmospheric corrosion resistant steel).

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.

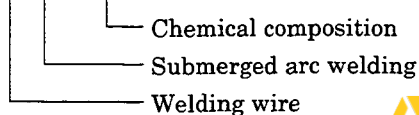
3 Classification Wires shall be classified according to chemical composition, as given in Table 1.

Table 1 Classification of wires

Classification	Component series	Classification	Component series
YS-S1 YS-S2 YS-S3 YS-S4 YS-S5 YS-S6 YS-S7 YS-S8	Si-Mn series	YS-N1 YS-N2	Ni series
		YS-NM1 YS-NM2 YS-NM3 YS-NM4 YS-NM5 YS-NM6	Ni-Mo series
YS-M1 YS-M2 YS-M3 YS-M4 YS-M5	Mo series	YS-NCM1 YS-NCM2 YS-NCM3 YS-NCM4 YS-NCM5 YS-NCM6	Ni-Cr-Mo series
YS-CM1 YS-CM2 YS-CM3 YS-CM4 YS-1CM1 YS-1CM2 YS-2CM1 YS-2CM2 YS-3CM1 YS-3CM2 YS-5CM1 YS-5CM2	Cr-Mo series	YS-CuC1 YS-CuC2	Cu-Cr series
		YS-G	—

Remarks : The symbols for classification shall be in accordance with the following example.

Example : Y S - S1



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