



JAPANESE
INDUSTRIAL
STANDARD

Translated and Published by
Japanese Standards Association

☞ JIS G 4309 : 1999

Stainless steel wires

ICS 77.140.20; 77.140.65

Descriptors : wires, materials by form, stainless steels, corrosion-resistant steels, steels

Reference number : JIS G 4309 : 1999 (E)

G 4309 : 1999

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 Japanese Industrial Standards Committee in accordance with the Industrial Standardization Law. Consequently **JIS G 4309 : 1994** is replaced with **JIS G 4309 : 1999**.

Date of Establishment: 1959-12-01

Date of Revision: 1999-06-20

Date of Public Notice in Official Gazette: 1999-06-21

Investigated by: Japanese Industrial Standards Committee
Divisional Council on Iron and Steel

JIS G 4309:1999, First English edition published in 2000-05

Translated and published by: Japanese Standards Association
4-1-24, Akasaka, Minato-ku, Tokyo, 107-8440 JAPAN

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

© JSA 2000

All rights reserved. Unless otherwise specified, no part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying and microfilm, without permission in writing from the publisher.

Printed in Japan

Stainless steel wires

1 Scope This Japanese Industrial Standard specifies stainless steel wires and heat-resistant steel wires containing approximately 10.5 % or over chromium (hereafter referred to as "wires"). However, this Standard does not apply to stainless steel wires for spring and stainless steel wires for cold heading and cold forging.

2 Normative references The following standards contain provisions which, through reference in this Standard, constitute provisions of this Standard. The most recent editions (including amendments) of the standards listed shall be applied.

JIS G 4308 *Stainless steel wire rods*

JIS G 4311 *Heat-resisting steel bars*

JIS Z 2201 *Test pieces for tensile test for metallic materials*

JIS Z 2241 *Method of tensile test for metallic materials*

3 Symbol of grade, temper and classification Wires shall be classified into 35 grades, and their symbols of grades, temper and classification shall be as given in Table 1. The symbols of temper denote; W1 for soft No. 1; W2 for soft No. 2; and $W\frac{1}{2}H$ for hard.

Table 1 Symbol of grade, temper and classification

Symbol of grade	Temper		Classification	Symbol of grade	Temper		Classification
	Division	Symbol			Division	Symbol	
SUS201	Soft No. 1	W1	Austenitic series	SUS316L	Soft No. 1	W1	Austenitic series
	Soft No. 2	W2			Soft No. 2	W2	
	$\frac{1}{2}$ hard	$W\frac{1}{2}H$		SUS316F	Soft No. 1	W1	
					Soft No. 2	W2	
				SUS317	Soft No. 1	W1	
SUS303	Soft No. 1	W1			Soft No. 2	W2	
	Soft No. 2	W2		SUS317L	Soft No. 1	W1	
SUS303Se	Soft No. 1	W1			Soft No. 2	W2	
	Soft No. 2	W2		SUS321	Soft No. 1	W1	
SUS303Cu	Soft No. 1	W1			Soft No. 2	W2	
	Soft No. 2	W2		SUS347	Soft No. 1	W1	
SUS304	Soft No. 1	W1			Soft No. 2	W2	
	Soft No. 2	W2		SUSXM7	Soft No. 1	W1	
$\frac{1}{2}$ hard	$W\frac{1}{2}H$				Soft No. 2	W2	
SUS304L	Soft No. 1	W1		SUSXM15J1	Soft No. 1	W1	
	Soft No. 2	W2			Soft No. 2	W2	
SUS304N1	Soft No. 1	W1		SUH330	Soft No. 1	W1	Ferritic series
	Soft No. 2	W2			Soft No. 2	W2	
$\frac{1}{2}$ hard	$W\frac{1}{2}H$			SUS405	Soft No. 2	W2	
SUS304J3	Soft No. 1	W1					
	Soft No. 2	W2		SUS430	Soft No. 2	W2	
SUS305	Soft No. 1	W1	Martensitic series	SUS430F	Soft No. 2	W2	Martensitic series
	Soft No. 2	W2		SUH446	Soft No. 2	W2	
SUS305J1	Soft No. 1	W1					
	Soft No. 2	W2		SUS403	Soft No. 2	W2	
SUS309S	Soft No. 1	W1					
	Soft No. 2	W2		SUS410	Soft No. 2	W2	Martensitic series
SUS310S	Soft No. 1	W1					
	Soft No. 2	W2		SUS410F2	Soft No. 2	W2	
SUS316	Soft No. 1	W1		SUS416	Soft No. 2	W2	
	Soft No. 2	W2					
$\frac{1}{2}$ hard	$W\frac{1}{2}H$			SUS420J1	Soft No. 2	W2	
				SUS420J2	Soft No. 2	W2	
				SUS420F	Soft No. 2	W2	
				SUS420F2	Soft No. 2	W2	
				SUS440C	Soft No. 2	W2	

4 Mechanical properties Wires shall undergo the test specified in 9.1, and their mechanical properties shall be as follows:

- a) The tensile strength and elongation of the wires of soft No. 1 shall conform to Tables 2-1 and 2-2.