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JIS G 4304 : 2021

(JSSA/JSA)

**Hot-rolled stainless steel plate, sheet and
strip**

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Foreword

This Japanese Industrial Standard has been revised by the Minister of Economy, Trade and Industry through deliberations at the Japanese Industrial Standards Committee as the result of proposal for revision of Japanese Industrial Standard submitted by Japan Stainless Steel Association (JSSA)/Japanese Standards Association (JSA) with a draft being attached, based on the provision of Article 12, paragraph (1) of the Industrial Standardization Act applied mutatis mutandis pursuant to the provision of Article 16 of the said Act. This edition replaces the previous edition (**JIS G 4304 : 2015**), which has been technically revised.

However, **JIS G 4304 : 2015** may be applied in the **JIS** mark certification based on the relevant provisions of Article 30, paragraph (1), etc. of the Industrial Standardization Act until 21 March 2022.

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It should be noted that being in conformance with this Standard may come under the use of the patent rights and other rights held by the following:

Symbol of grade	Patent holder	Title of invention	Patent number	Registration date of establishment of patent right
SUS443J1	JFE Steel Corporation	Ferritic stainless steel sheet with excellent corrosion resistance and method for producing the same	4396676	30 October 2009
SUS821L1	Nippon Steel & Sumikin Stainless Steel Corporation	Alloy-saving duplex stainless steel with good corrosion resistance and toughness of weld heat affected zone	5345070	23 August 2013

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The “patent rights and other rights” as mentioned here include patent right, published patent application or utility model right.

Hot-rolled stainless steel plate, sheet and strip

Introduction

This Japanese Industrial Standard has been prepared based on **ISO 16143-1** : 2014, Edition 2, **ISO 9444-1** : 2009, Edition 1, **ISO 9444-2** : 2009, Edition 1, and **ISO 18286** : 2008, Edition 2, with some modifications of the technical contents.

The vertical lines on both sides indicate changes from the corresponding International Standard. A list of modifications with the explanations is given in Annex JB.

1 Scope

This Standard specifies requirements for the hot-rolled stainless steel plates and sheets (hereafter referred to as plates) and hot-rolled stainless steel strip (hereafter referred to as strip).

NOTE The International Standards corresponding to this Standard and the symbol of degree of correspondence are as follows.

ISO 16143-1 : 2014 *Stainless steels for general purposes — Part 1 : Corrosion-resistant flat products*

ISO 9444-1 : 2009 *Continuously hot-rolled stainless steel — Tolerances on dimensions and form — Part 1 : Narrow strip and cut lengths*

ISO 9444-2 : 2009 *Continuously hot-rolled stainless steel — Tolerances on dimensions and form — Part 2 : Wide strip and sheet/plate*

ISO 18286 : 2008 *Hot-rolled stainless steel plates — Tolerances on dimensions and shape* (overall evaluation : MOD)

In addition, symbols which denote the degree of correspondence in the contents between the relevant International Standards and **JIS** are IDT (identical), MOD (modified), and NEQ (not equivalent) according to **ISO/IEC Guide 21-1**.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this Standard. The most recent editions of the standards (including amendments) indicated below shall be applied.

JIS G 0320 *Standard test method for heat analysis of steel products*

JIS G 0321 *Product analysis and its tolerance for wrought steel*

JIS G 0404 *Steel and steel products — General technical delivery requirements*

JIS G 0415 *Steel and steel products — Inspection documents*

JIS G 0571 *Method of oxalic acid etching test for stainless steels*

JIS G 0572 *Method of ferric sulfate-sulfuric acid test for stainless steel*

JIS G 0573	<i>Method of 65 per cent nitric acid test for stainless steels</i>
JIS G 0575	<i>Method of copper sulfate-sulfuric acid test for stainless steels</i>
JIS Z 2241	<i>Metallic materials — Tensile testing — Method of test at room temperature</i>
JIS Z 2243-1	<i>Brinell hardness test — Part 1 : Test method</i>
JIS Z 2244-1	<i>Vickers hardness test — Part 1 : Test method</i>
JIS Z 2245	<i>Rockwell hardness test — Test method</i>
JIS Z 2248	<i>Metallic materials — Bend test</i>
JIS Z 8401	<i>Rounding of numbers</i>

3 Symbols of grade

This Standard covers plates and strip of 66 steel grades. Their classifications and symbols are shown in Table 1.

Table 1 Classifications and symbols of grade

Classification	Symbol of grade a), b)	Classification	Symbol of grade a), b)	Classification	Symbol of grade a), b)
Austenitic series	SUS301	Austenitic series	SUS316LN	Ferritic series	SUS410L
	SUS301L		SUS316Ti		SUS429
	SUS301J1		SUS316J1		SUS430
	SUS302B		SUS316J1L		SUS430LX
	SUS303		SUS317		SUS430J1L
	SUS304		SUS317L		SUS434
	SUS304Cu		SUS317LN		SUS436L
	SUS304L		SUS317J1		SUS436J1L
	SUS304N1		SUS317J2		SUS443J1
	SUS304N2		SUS836L		SUS444
	SUS304LN		SUS890L		SUS445J1
	SUS304J1		SUS321		SUS445J2
	SUS304J2		SUS347		SUS447J1
	SUS305		SUSXM7		SUSXM27
	SUS309S		SUSXM15J1	Martensitic series	SUS403
	SUS310S	Austenitic-ferritic series	SUS821L1		SUS410
	SUS312L		SUS323L		SUS410S
	SUS315J1		SUS329J1		SUS420J1
	SUS315J2		SUS329J3L		SUS420J2
	SUS316		SUS329J4L	Precipitation hardening series	SUS440A
	SUS316L	Ferritic series	SUS327L1		SUS630
	SUS316N		SUS405		SUS631

Notes ^{a)} Where necessary, “-HP” may be attached after the above symbol of grade to indicate that the product is a plate.

Example SUS304-HP

^{b)} Where necessary, “-HS” may be attached after the above symbol of grade to indicate that the product is a strip.

Example SUS304-HS

4 Manufacturing method

The manufacturing method shall be as follows.

- a) Plates and strip shall be manufactured by hot-rolling, and then given a specified heat treatment, followed by pickling or an equivalent treatment. As required, levelling, grinding or temper rolling, or combination of these may be performed. Pickling or other treatment following heat treatment may be omitted upon agreement between the purchaser and the manufacturer. Typical heat treatment conditions are shown in Annex JA for reference.

Temper rolling is the process of lightly hot-rolling the products to obtain a shape, dimensions, surface finish, mechanical properties and workability that are desirable for the intended purpose of the product.

- b) Heat treatment may be omitted upon agreement between the purchaser and the manufacturer. In this case, the product shall be given the marking “AR”.
- c) Unless otherwise requested by the purchaser, austenitic series, austenitic-ferritic series and precipitation hardening series shall be solution treated, and ferritic series and martensitic series shall be annealed.
- d) If approved by the purchaser, austenitic series may be given a solution treatment where the product is heat treated on the rolling line and then rapidly cooled. In this case, the product shall be given the marking “LS”.
- e) If requested by the purchaser, SUS420J2 and SUS440A may be given quenching and tempering. In this case, the product shall be given the marking “Q”.
- f) If requested by the purchaser, precipitation hardening series may be given precipitation hardening treatment. In this case, the product shall be given the heat treatment symbol given in Table 2.

Table 2 Heat treatment symbols for precipitation hardening series

Symbol of grade	Heat treatment	Symbol
SUS630	Precipitation hardening	H900, H1025, H1075, H1150
SUS631	Precipitation hardening	RH950, TH1050

5 Chemical composition

5.1 Heat analysis values

The results of heat analysis obtained according to 11.1 shall satisfy the composition given in Tables 3 to 7.

5.2 Product analysis values

If requested by the purchaser, a product analysis shall be performed according to 11.1 and results shall satisfy the composition given in Tables 3 to 7 within the toler-

ances given in Table 5 of **JIS G 0321**. The tolerances for elements not given in Table 5 of **JIS G 0321** may be as agreed between the purchaser and the manufacturer.

Table 3 Chemical composition of austenitic series

Unit: %

Symbols of grade	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	N	Others
SUS301	0.15 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	6.00 to 8.00	16.00 to 18.00	—	—	—	—
SUS301L	0.030 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	6.00 to 8.00	16.00 to 18.00	—	—	0.20 max.	—
SUS301J1	0.08 to 0.12	1.00 max.	2.00 max.	0.045 max.	0.030 max.	7.00 to 9.00	16.00 to 18.00	—	—	—	—
SUS302B	0.15 max.	2.00 to 3.00	2.00 max.	0.045 max.	0.030 max.	8.00 to 10.00	17.00 to 19.00	—	—	—	—
SUS303 ^{a)}	0.15 max.	1.00 max.	2.00 max.	0.20 max.	0.15 min.	8.00 to 10.00	17.00 to 19.00	—	—	—	—
SUS304	0.08 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	8.00 to 10.50	18.00 to 20.00	—	—	—	—
SUS304Cu	0.08 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	8.00 to 10.50	18.00 to 20.00	—	0.70 to 1.30	—	—
SUS304L	0.030 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	9.00 to 13.00	18.00 to 20.00	—	—	—	—
SUS304N1	0.08 max.	1.00 max.	2.50 max.	0.045 max.	0.030 max.	7.00 to 10.50	18.00 to 20.00	—	—	0.10 to 0.25	—
SUS304N2	0.08 max.	1.00 max.	2.50 max.	0.045 max.	0.030 max.	7.50 to 10.50	18.00 to 20.00	—	—	0.15 to 0.30	Nb : 0.15 max.
SUS304LN	0.030 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	8.50 to 11.50	17.00 to 19.00	—	—	0.12 to 0.22	—
SUS304J1	0.08 max.	1.70 max.	3.00 max.	0.045 max.	0.030 max.	6.00 to 9.00	15.00 to 18.00	—	1.00 to 3.00	—	—
SUS304J2	0.08 max.	1.70 max.	3.00 to 5.00	0.045 max.	0.030 max.	6.00 to 9.00	15.00 to 18.00	—	1.00 to 3.00	—	—
SUS305	0.12 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	10.50 to 13.00	17.00 to 19.00	—	—	—	—

Table 3 (continued)

Unit: %

Symbols of grade	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	N	Others
SUS309S	0.08 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	12.00 to 15.00	22.00 to 24.00	—	—	—	—
SUS310S	0.08 max.	1.50 max.	2.00 max.	0.045 max.	0.030 max.	19.00 to 22.00	24.00 to 26.00	—	—	—	—
SUS312L	0.020 max.	0.80 max.	1.00 max.	0.030 max.	0.015 max.	17.50 to 19.50	19.00 to 21.00	6.00 to 7.00	0.50 to 1.00	0.16 to 0.25	—
SUS315J1	0.08 max.	0.50 to 2.50	2.00 max.	0.045 max.	0.030 max.	8.50 to 11.50	17.00 to 20.50	0.50 to 1.50	0.50 to 3.50	—	—
SUS315J2	0.08 max.	2.50 to 4.00	2.00 max.	0.045 max.	0.030 max.	11.00 to 14.00	17.00 to 20.50	0.50 to 1.50	0.50 to 3.50	—	—
SUS316	0.08 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	10.00 to 14.00	16.00 to 18.00	2.00 to 3.00	—	—	—
SUS316L	0.030 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	12.00 to 15.00	16.00 to 18.00	2.00 to 3.00	—	—	—
SUS316N	0.08 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	10.00 to 14.00	16.00 to 18.00	2.00 to 3.00	—	0.10 to 0.22	—
SUS316LN	0.030 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	10.50 to 14.50	16.50 to 18.50	2.00 to 3.00	—	0.12 to 0.22	—
SUS316Ti	0.08 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	10.00 to 14.00	16.00 to 18.00	2.00 to 3.00	—	—	Ti : 5 × C % min.
SUS316J1	0.08 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	10.00 to 14.00	17.00 to 19.00	1.20 to 2.75	1.00 to 2.50	—	—
SUS316J1L	0.030 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	12.00 to 16.00	17.00 to 19.00	1.20 to 2.75	1.00 to 2.50	—	—
SUS317	0.08 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	11.00 to 15.00	18.00 to 20.00	3.00 to 4.00	—	—	—
SUS317L	0.030 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	11.00 to 15.00	18.00 to 20.00	3.00 to 4.00	—	—	—
SUS317LN	0.030 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	11.00 to 15.00	18.00 to 20.00	3.00 to 4.00	—	0.10 to 0.22	—

Table 3 (concluded)

Unit: %

Symbols of grade	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	N	Others
SUS317J1	0.040 max.	1.00 max.	2.50 max.	0.045 max.	0.030 max.	15.00 to 17.00	16.00 to 19.00	4.00 to 6.00	—	—	—
SUS317J2	0.06 max.	1.50 max.	2.00 max.	0.045 max.	0.030 max.	12.00 to 16.00	23.00 to 26.00	0.50 to 1.20	—	0.25 to 0.40	—
SUS836L	0.030 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	24.00 to 26.00	19.00 to 24.00	5.00 to 7.00	—	0.25 max.	—
SUS890L	0.020 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	23.00 to 28.00	19.00 to 23.00	4.00 to 5.00	1.00 to 2.00	—	—
SUS321	0.08 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	9.00 to 13.00	17.00 to 19.00	—	—	—	Ti : 5 × C % min.
SUS347	0.08 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	9.00 to 13.00	17.00 to 19.00	—	—	—	Nb : 10 × C % min.
SUSXM7	0.08 max.	1.00 max.	2.00 max.	0.045 max.	0.030 max.	8.50 to 10.50	17.00 to 19.00	—	3.00 to 4.00	—	—
SUSXM15J1 b)	0.08 max.	3.00 to 5.00	2.00 max.	0.045 max.	0.030 max.	11.50 to 15.00	15.00 to 20.00	—	—	—	—
Notes a) For SUS303, Mo shall not exceed 0.60 %. b) For SUSXM15J1, if one or combination of elements Cu, Mo, Nb, Ti and N, not given in this Table, is/are added as required, the content(s) of the added element(s) shall be reported.											

Table 4 Chemical composition of austenitic-ferritic series

Unit: %

Symbol of grade	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	N
SUS821L1	0.030 max.	0.75 max.	2.00 to 4.00	0.040 max.	0.020 max.	1.50 to 2.50	20.50 to 21.50	0.60 max.	0.50 to 1.50	0.15 to 0.20
SUS323L	0.030 max.	1.00 max.	2.50 max.	0.040 max.	0.030 max.	3.00 to 5.50	21.50 to 24.50	0.05 to 0.60	0.05 to 0.60	0.05 to 0.20
SUS329J1 a)	0.08 max.	1.00 max.	1.50 max.	0.040 max.	0.030 max.	3.00 to 6.00	23.00 to 28.00	1.00 to 3.00	—	—
SUS329J3L b)	0.030 max.	1.00 max.	2.00 max.	0.040 max.	0.030 max.	4.50 to 6.50	21.00 to 24.00	2.50 to 3.50	—	0.08 to 0.20

Table 4 (concluded)

Unit: %

Symbol of grade	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	N
SUS329J4L ^{b)}	0.030 max.	1.00 max.	1.50 max.	0.040 max.	0.030 max.	5.50 to 7.50	24.00 to 26.00	2.50 to 3.50	—	0.08 to 0.30
SUS327L1	0.030 max.	0.80 max.	1.20 max.	0.035 max.	0.020 max.	6.00 to 8.00	24.00 to 26.00	3.00 to 5.00	0.50 max.	0.24 to 0.32

Notes ^{a)} For SUS329J1, if one or combination of elements Cu, W and N, not given in this Table, is/are added as required, the content(s) of the added element(s) shall be reported.

^{b)} For SUS329J3L and SUS329J4L, if either or both of Cu and W, not given in this Table, is/are added as required, the content(s) of the added element(s) shall be reported.

Table 5 Chemical composition of ferritic series

Unit: %

Symbol of grade	C	Si	Mn	P	S	Cr	Mo	N	Others
SUS405 ^{a)}	0.08 max.	1.00 max.	1.00 max.	0.040 max.	0.030 max.	11.50 to 14.50	—	—	Al : 0.10 to 0.30
SUS410L ^{a)}	0.030 max.	1.00 max.	1.00 max.	0.040 max.	0.030 max.	11.00 to 13.50	—	—	—
SUS429 ^{a)}	0.12 max.	1.00 max.	1.00 max.	0.040 max.	0.030 max.	14.00 to 16.00	—	—	—
SUS430 ^{a)}	0.12 max.	0.75 max.	1.00 max.	0.040 max.	0.030 max.	16.00 to 18.00	—	—	—
SUS430LX ^{a)}	0.030 max.	0.75 max.	1.00 max.	0.040 max.	0.030 max.	16.00 to 19.00	—	—	Ti or Nb : 0.10 to 1.00
SUS430J1L ^{a),b)}	0.025 max.	1.00 max.	1.00 max.	0.040 max.	0.030 max.	16.00 to 20.00	—	0.025 max.	Ti, Nb or Zr, or combination of these : $8 \times (C \% + N \%)$ to 0.80 Cu : 0.30 to 0.80
SUS434 ^{a)}	0.12 max.	1.00 max.	1.00 max.	0.040 max.	0.030 max.	16.00 to 18.00	0.75 to 1.25	—	—
SUS436L ^{a)}	0.025 max.	1.00 max.	1.00 max.	0.040 max.	0.030 max.	16.00 to 19.00	0.75 to 1.50	0.025 max.	Ti, Nb or Zr, or combination of these : $8 \times (C \% + N \%)$ to 0.80
SUS436J1L ^{a)}	0.025 max.	1.00 max.	1.00 max.	0.040 max.	0.030 max.	17.00 to 20.00	0.40 to 0.80	0.025 max.	Ti, Nb or Zr, or combination of these : $8 \times (C \% + N \%)$ to 0.80

Table 5 (concluded)

Unit: %

Symbol of grade	C	Si	Mn	P	S	Cr	Mo	N	Others
SUS443J1 ^{a)}	0.025 max.	1.00 max.	1.00 max.	0.040 max.	0.030 max.	20.00 to 23.00	—	0.025 max.	Ti, Nb or Zr, or combination of these : $8 \times (C \% + N \%)$ to 0.80 Cu : 0.30 to 0.80
SUS444 ^{a)}	0.025 max.	1.00 max.	1.00 max.	0.040 max.	0.030 max.	17.00 to 20.00	1.75 to 2.50	0.025 max.	Ti, Nb or Zr, or combination of these : $8 \times (C \% + N \%)$ to 0.80
SUS445J1 ^{a),c)}	0.025 max.	1.00 max.	1.00 max.	0.040 max.	0.030 max.	21.00 to 24.00	0.70 to 1.50	0.025 max.	—
SUS445J2 ^{a),c)}	0.025 max.	1.00 max.	1.00 max.	0.040 max.	0.030 max.	21.00 to 24.00	1.50 to 2.50	0.025 max.	—
SUS447J1 ^{d)}	0.010 max.	0.40 max.	0.40 max.	0.030 max.	0.020 max.	28.50 to 32.00	1.50 to 2.50	0.015 max.	—
SUSXM27 ^{d)}	0.010 max.	0.40 max.	0.40 max.	0.030 max.	0.020 max.	25.00 to 27.50	0.75 to 1.50	0.015 max.	—

- Notes ^{a)} For other steel grades than SUS447J1 and SUSXM27, Ni shall not exceed 0.60 %.
- ^{b)} For SUS430J1L, if V, not given in this Table, is added as required, its content shall be reported.
- ^{c)} For SUS445J1 and SUS445J2, if one or combination of elements Cu, V, Ti and Nb, not given in this Table, is/are added as required, the content(s) of the added element(s) shall be reported.
- ^{d)} For SUS447J1 and SUSXM27, Ni shall not exceed 0.50 %, Cu, 0.20 % and (Ni + Cu), 0.50 % and if one or combination of elements V, Ti and Nb, not given in this Table, is/are added as required, the content(s) of the added element(s) shall be reported.

Table 6 Chemical composition of martensitic series

Unit: %

Symbol of grade	C	Si	Mn	P	S	Cr
SUS403	0.15 max.	0.50 max.	1.00 max.	0.040 max.	0.030 max.	11.50 to 13.00
SUS410	0.15 max.	1.00 max.	1.00 max.	0.040 max.	0.030 max.	11.50 to 13.50
SUS410S	0.08 max.	1.00 max.	1.00 max.	0.040 max.	0.030 max.	11.50 to 13.50
SUS420J1	0.16 to 0.25	1.00 max.	1.00 max.	0.040 max.	0.030 max.	12.00 to 14.00
SUS420J2	0.26 to 0.40	1.00 max.	1.00 max.	0.040 max.	0.030 max.	12.00 to 14.00
SUS440A ^{a)}	0.60 to 0.75	1.00 max.	1.00 max.	0.040 max.	0.030 max.	16.00 to 18.00

Ni shall not exceed 0.60 %.

Note ^{a)} For SUS440A, Mo shall not exceed 0.75 %.

Table 7 Chemical composition of precipitation hardening series

Symbol of grade	Unit: %								
	C	Si	Mn	P	S	Ni	Cr	Cu	Others
SUS630	0.07 max.	1.00 max.	1.00 max.	0.040 max.	0.030 max.	3.00 to 5.00	15.00 to 17.50	3.00 to 5.00	Nb : 0.15 to 0.45
SUS631	0.09 max.	1.00 max.	1.00 max.	0.040 max.	0.030 max.	6.50 to 7.75	16.00 to 18.00	—	Al : 0.75 to 1.50

6 Mechanical properties

6.1 General

General requirements shall be as follows.

- Heat treated plates and strip shall satisfy the mechanical properties specified in **6.2 to 6.6** when tested in accordance with **11.2**.
- For plates and strip to be supplied as rolled, the necessity of mechanical properties requirements and their required values shall be as agreed between the purchaser and the manufacturer.
- Sample shall be prepared according to Class A specified in **7.6** of **JIS G 0404**.

NOTE This Standard does not specify mechanical properties for products which are heat treated after shipment from the manufacturer.

6.2 Mechanical properties of austenitic series

Mechanical properties of austenitic series shall be as follows.

- Mechanical properties of solution treated plates and strip shall conform to Table 8. The proof stress shall apply only when specified by the purchaser.

Table 8 Mechanical properties of austenitic series in solution treated condition

Symbol of grade	Proof stress N/mm ²	Tensile strength N/mm ²	Elongation %	Hardness ^{a)}		
				HBW	HRBW or HRBS ^{b)}	HV
SUS301	205 min.	520 min.	40 min.	207 max.	95 max.	218 max.
SUS301L	215 min.	550 min.	45 min.	207 max.	95 max.	218 max.
SUS301J1	205 min.	570 min.	45 min.	187 max.	90 max.	200 max.
SUS302B	205 min.	520 min.	40 min.	207 max.	95 max.	218 max.
SUS303	205 min.	520 min.	35 min.	187 max.	90 max.	200 max.
SUS304	205 min.	520 min.	40 min.	187 max.	90 max.	200 max.
SUS304Cu	205 min.	520 min.	40 min.	187 max.	90 max.	200 max.
SUS304L	175 min.	480 min.	40 min.	187 max.	90 max.	200 max.
SUS304N1	275 min.	550 min.	35 min.	217 max.	95 max.	220 max.
SUS304N2	345 min.	690 min.	35 min.	248 max.	100 max.	260 max.
SUS304LN	245 min.	550 min.	40 min.	217 max.	95 max.	220 max.
SUS304J1	155 min.	450 min.	40 min.	187 max.	90 max.	200 max.
SUS304J2	155 min.	450 min.	40 min.	187 max.	90 max.	200 max.
SUS305	175 min.	480 min.	40 min.	187 max.	90 max.	200 max.
SUS309S	205 min.	520 min.	40 min.	187 max.	90 max.	200 max.
SUS310S	205 min.	520 min.	40 min.	187 max.	90 max.	200 max.
SUS312L	300 min.	650 min.	35 min.	223 max.	96 max.	230 max.
SUS315J1	205 min.	520 min.	40 min.	187 max.	90 max.	200 max.
SUS315J2	205 min.	520 min.	40 min.	187 max.	90 max.	200 max.
SUS316	205 min.	520 min.	40 min.	187 max.	90 max.	200 max.
SUS316L	175 min.	480 min.	40 min.	187 max.	90 max.	200 max.
SUS316N	275 min.	550 min.	35 min.	217 max.	95 max.	220 max.
SUS316LN	245 min.	550 min.	40 min.	217 max.	95 max.	220 max.
SUS316Ti	205 min.	520 min.	40 min.	187 max.	90 max.	200 max.
SUS316J1	205 min.	520 min.	40 min.	187 max.	90 max.	200 max.
SUS316J1L	175 min.	480 min.	40 min.	187 max.	90 max.	200 max.
SUS317	205 min.	520 min.	40 min.	187 max.	90 max.	200 max.
SUS317L	175 min.	480 min.	40 min.	187 max.	90 max.	200 max.
SUS317LN	245 min.	550 min.	40 min.	217 max.	95 max.	220 max.
SUS317J1	175 min.	480 min.	40 min.	187 max.	90 max.	200 max.
SUS317J2	345 min.	690 min.	40 min.	250 max.	100 max.	260 max.
SUS836L	275 min.	640 min.	40 min.	217 max.	96 max.	230 max.
SUS890L	215 min.	490 min.	35 min.	187 max.	90 max.	200 max.
SUS321	205 min.	520 min.	40 min.	187 max.	90 max.	200 max.
SUS347	205 min.	520 min.	40 min.	187 max.	90 max.	200 max.
SUSXM7	155 min.	450 min.	40 min.	187 max.	90 max.	200 max.
SUSXM15J1	205 min.	520 min.	40 min.	207 max.	95 max.	218 max.

NOTE 1 N/mm² = 1 MPa

Notes ^{a)} One of the selected hardness values shall apply. The selection is left to the manufacturer unless otherwise specified.

^{b)} Measurement may be by either of the hardness scales, HRBW being applied in case of doubt. The hardness scale used (HRBW or HRBS) shall be stated in the report.