

Classification	Steel type		Density	Chemical composition(%)									Mechanical nature				Usage Characteristics
													0.2% proof stress	Tensile strength	Elongation	Hardness	
	JIS	UNS Number	g/cm3	C	Si	Mn	P	S	Ni	Cr	Mo	Other	N/mm2	N/mm2	%	HRB(HV)	
Austenitic stainless steel	SUS304	S30400	7.93	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	8.00/10.50	18.00/20.00	-	-	≥205	≥520	≥40	≤90	General household appliances, chemical plant, building decoration, vehicle
	SUS304L	S30403	7.93	≤0.030	≤1.00	≤2.00	≤0.045	≤0.030	8.00/10.50	18.00/20.00	-	-	≥175	≥480	≥40	≤90	Petroleum refining plant, chemical plant, nuclear reactor equipment, papermaking plant
	SUS304N2	S30452	7.93	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	7.50/10.5	18.00/20.00	-	N:0.15/0.30 Nb≤0.15	≥345	≥690	≥35	≤100	Structural strength member, high pressure container
	SUS305	S30500	7.93	≤0.12	≤1.00	≤2.50	≤0.045	≤0.030	10.50/13.00	17.00/19.00	-	-	≥175	≥480	≥40	≤90	Cold drawn product, expanded molded part, spatula part
	SUS309S	S30908	7.98	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	12.00/15.00	22.00/24.00	-	-	≥205	≥520	≥40	≤90	Boiler parts, combustion chamber parts, exhaust equipment, gas turbine parts
	SUS310S	S31008	7.98	≤0.08	≤1.50	≤2.00	≤0.045	≤0.030	19.00/22.00	24.00/26.00	-	-	≥205	≥520	≥40	≤90	Boiler parts, combustion chamber parts, exhaust equipment, gas turbine parts
	SUS316	S31600	7.98	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	10.00/14.00	16.00/18.00	2.00/3.00	-	≥205	≥520	≥40	≤90	Petroleum refining plant, chemical plant, nuclear reactor equipment, papermaking plant
	SUS316L	S31603	7.98	≤0.030	≤1.00	≤2.00	≤0.045	≤0.030	12.00/15.00	16.00/18.00	2.00/3.00	-	≥175	≥480	≥40	≤90	Petroleum refining plant, chemical plant, nuclear reactor equipment, papermaking plant
	SUS316LN	S31653	7.98	≤0.030	≤1.00	≤2.00	≤0.045	≤0.030	10.50/14.50	16.50/18.50	2.00/3.00	N:0.12/0.22	≥245	≥550	≥40	≤95	
	SUS316J1	-	7.98	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	10.00/14.00	17.00/19.00	1.20/2.75	Cu:1.00/2.50	≥205	≥520	≥40	≤90	
	SUS316J1L	-	7.98	≤0.030	≤1.00	≤2.00	≤0.045	≤0.030	12.00/16.00	17.00/19.00	1.20/2.75	Cu:1.00/2.50	≥175	≥480	≥40	≤90	
	SUS317	S31700	7.98	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	11.00/15.00	18.00/20.00	3.00/4.00	-	≥205	≥520	≥40	≤90	Petroleum refining plant, nuclear reactor equipment, papermaking plant, dyeing plant
	SUS317L	S31703	7.98	≤0.030	≤1.00	≤2.00	≤0.045	≤0.030	11.00/15.00	18.00/20.00	3.00/4.00	-	≥175	≥480	≥40	≤90	Chemical Plant, Textile Plant
	SUS317LN	S31753	7.97	≤0.030	≤1.00	≤2.00	≤0.045	≤0.030	11.00/15.00	18.00/20.00	3.00/4.00	N:0.10/0.22	≥245	≥550	≥40	≤95	
	SUS317J2	-	7.98	≤0.06	≤1.50	≤2.00	≤0.045	≤0.030	12.00/16.00	23.00/26.00	0.50/1.20	N:0.25/0.40	≥345	≥690	≥40	≤100	
	SUS321	S32100	7.93	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	9.00/13.00	17.00/19.00	-	Ti: ≥5°C%	≥205	≥520	≥40	≤90	Jet engine parts, pressure cookers, chemical plants
SUS347	S34700	7.98	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	9.00/13.00	17.00/19.00	-	Nb ≥10°C%	≥205	≥520	≥40	≤90	Chemical plants, energy related plants	
Ferrite type	SUS405	S40500	7.75	≤0.08	≤1.00	≤1.00	≤0.040	≤0.030	-	11.50/14.50	-	-	≥175	≥410	≥20	(≤200)	Mechanical structural parts, food plants, chemical plants
	SUS410L	-	7.75	≤0.030	≤1.00	≤1.00	≤0.040	≤0.030	-	11.00/13.50	-	-	≥195	≥360	≥22	(≤200)	Automobile exhaust gas equipment, boiler combustion chamber, burner
	SUS430	S43000	7.7	≤0.12	≤0.75	≤1.00	≤0.040	≤0.030	-	16.00/18.00	-	-	≥205	≥450	≥22	(≤200)	General household appliances, commercial kitchen equipment, fractionation device
	SUS434	S43400	7.7	≤0.12	≤1.00	≤1.00	≤0.040	≤0.030	-	16.00/18.00	0.75/1.25	-	≥205	≥450	≥22	(≤200)	Automobile Malls, Fasteners, Road Maintenance Materials
Martensitic system	SUS444	S44400	7.75	≤0.025	≤1.00	≤1.00	≤0.040	≤0.030	-	17.00/20.00	1.75/2.50	N≤0.025	≥245	≥410	≥20	(≤230)	Water heater boiler, electric water heater
	SUS410	S41000	7.75	≤0.15	≤1.00	≤1.00	≤0.040	≤0.030	-	11.50/13.50	-	-	≥205	≥440	≥20	(≤210)	Machine structural members, household appliances, knives
	SUS410S	S41008	7.75	≤0.08	≤1.00	≤1.00	≤0.040	≤0.030	-	11.50/13.50	-	-	≥205	≥410	≥20	(≤200)	Machine structural members, household appliances, knives
	SUS420J1	S42000	7.75	0.16/0.25	≤1.00	≤1.00	≤0.040	≤0.030	-	12.00/14.00	-	-	≥225	≥520	≥18	(≤234)	Turbine blade
	SUS420J2	S42000	7.75	0.26/0.40	≤1.00	≤1.00	≤0.040	≤0.030	-	12.00/14.00	-	-	≥225	≥540	≥18	(≤247)	Cutlery, nozzle, valve, straight scale
	-	S32750	7.8	≤0.030	≤0.8	≤2.00	≤0.035	≤0.020	6.0/8.0	24.00/26.00	3.0/5.0	N:0.24/0.32 Cu: ≤0.5	≥550	≥795	≥15	(≤310)HB	NAS 74N
Duplex/Super Duplex	-	S32760	7.8	≤0.030	≤0.8	≤1.00	≤0.030	≤0.010	6.0/8.0	24.00/26.00	3.0/5.0	N:0.2/0.3 Cu: ≤0.5	≥550	≥750	≥25	(≤270)	DP-3N, DP12, NAS 75N
	SUS31803/ S32205	-	7.8	≤0.030	≤1.00	≤2.00	≤0.040	≤0.020	4.5/6.5	21.00/23.00	2.5/3.5	N:0.08/0.20	≥450	≥620	≥18	(≤320)	DP-8, NAS 329J3L
	SUS329J4L	S31260	7.76	≤0.030	≤1.00	≤1.5	≤0.030	≤0.030	5.5/7.5	24.00/26.00	2.5/3.5	N:0.08/0.30	≥450	≥620	≥18	(≤320)	DP-3, NAS 64
	-	S39274	7.8	≤0.030	≤0.8	≤1.00	≤0.030	≤0.020	6.0/8.0	24.00/26.00	2.5/3.5	N:0.24/0.32	-	-	-	-	DP-3W
	-	S39808	7.8	≤0.030	≤0.5	≤1.10	≤0.030	≤0.010	7.0/8.2	27.00/27.90	0.8/1.2	N:0.3/0.4	-	-	-	-	DP-28W
	SUS836L	S32053	8.06	≤0.030	≤1.00	≤1.00	≤0.030	≤0.010	24/26	22.00/24.00	5.0/6.0	N:0.17/0.22	≥295	≥640	≥35	(≤230)	NAS 254N
	SUS890L	N08904	8.05	≤0.020	≤1.00	≤2.00	≤0.045	≤0.035	23/28	19.00/23.00	4.0/5.0	N≤0.1 Cu:1.0/2.0	≥215	≥490	≥35	(≤200)	904L, NAS255
	SUS312L	S31254	8.02	≤0.020	≤0.8	≤1.00	≤0.030	≤0.015	17.5/18.5	19.50/18.50	6.0/6.5	N:0.18/0.22 Cu:0.5/1.0	≥310	≥655	≥35	(≤223)HB	NAS 185N

\* DP, HR are registered trademarks of Nippon Steel & Sumitomo Metal Corporation.

\* NAS is a registered trademark of Nippon Metal Industry Co., Ltd.

Inoue Corporation  
KCA Building 8F, 101-1-7-11, Kajicho, Chiyoda-ku,  
Tokyo, Japan, 101-0044  
TEL : 03-3252-6386  
FAX : 03-3252-6389  
URL : <http://www.kk-inoue.co.jp/>