

AVAILABLE STAINLESS STEEL GRADES & CHEMICAL COMPOSITION

For stainless steel billet & bar & wire rod:

	Specification				Chemical Composition (%) ^A											Available ^B Product
	AISI	JIS	DIN	WALSIN	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	N	Other	
	204Cu	—	—	AISI 204Cu	0.15	1.00	6.50-9.00	0.060	0.030	1.50-3.50	15.50-17.50	—	2.00-4.00	0.05-0.25		A,W,B
	—	—	1.4597	204Cu	0.10	2.00	6.50-8.50	0.040	0.030	2.00	16.0-18.0	1.00	2.00-3.5	0.15-0.30	B:0.0005-0.0050	A,W,B
	XM-19	—	—	XM-19	0.06	1.00	4.00-6.00	0.045	0.030	11.50-13.50	20.50-23.50	1.50-3.00	—	0.20-0.40	Nb:0.10-0.30 V:0.10-0.30	A
	301	301	1.4310	301	0.15	1.00	2.00	0.045	0.030	6.00-8.00	16.00-18.00	—	—	0.10		A,W,B
	302	302	1.4325	302	0.15	1.00	2.00	0.045	0.030	8.00-10.00	17.00-19.00	—	—	0.10		A,W,B
	303	303	1.4305	303	0.15	1.00	2.00	0.20	0.15 min.	8.00-10.00	17.00-19.00	—	—	—		A,W,B
				303F	0.15	1.00	2.00	0.20	0.30-0.40	8.00-10.00	17.00-19.00	—	—	—		A,W,B
	—	303Cu	—	303Cu	0.15	1.00	3.00	0.20	0.15 min.	8.00-10.00	17.00-19.00	—	1.50-3.50	—		A,W,B
	304	304	1.4301	304	0.08	1.00	2.00	0.045	0.030	8.00-10.50	18.00-20.00	—	—	0.10		A,W,B
				304F	0.08	1.00	2.00	0.045	0.015-0.030	8.00-10.50	18.00-20.00	—	—	0.10		A,W,B
				304H	0.06-0.08	1.00	2.00	0.045	0.030	8.00-10.50	18.00-20.00	—	—	—		A,W,B
				304M	0.08	1.00	2.00	0.045	0.030	9.00-10.50	18.00-20.00	—	—	0.10		A,W,B
				304MF	0.08	1.00	2.00	0.045	0.015-0.030	9.00-10.50	18.00-20.00	—	—	0.10		A,W,B
	S30432	—	—	Super 304H	0.07-0.13	0.30	1.00	0.040	0.010	7.50-10.50	17.00-19.00	—	2.50-3.50	0.05-0.12	Al:0.003-0.030 B:0.001-0.010	A
	304L	—	1.4307	304L	0.03	1.00	2.00	0.045	0.030	8.00-12.00	18.00-20.00	—	—	—		A,W,B
				304LF	0.03	1.00	2.00	0.045	0.015-0.030	8.00-12.00	18.00-20.00	—	—	—		A,W,B
	—	304L	1.4307	304L	0.03	1.00	2.00	0.045	0.030	9.00-13.00	18.00-20.00	—	—	—		A,W,B
				304LS	0.03	1.00	2.00	0.045	0.015-0.030	9.00-13.00	18.00-20.00	—	—	—		A,W,B
	—	—	1.4306	304S	0.03	1.00	2.00	0.045	0.030	10.00-12.00	18.00-20.00	—	—	—		A,W,B
	—	304N1	—	304N1	0.08	1.00	2.50	0.045	0.030	7.00-10.50	18.00-20.00	—	—	0.10-0.25		A,W,B
	—	304N2	—	304N2	0.08	1.00	2.50	0.045	0.030	7.5-10.50	18.00-20.00	—	—	0.15-0.30	Nb:0.15max.	A,W,B
	—	304J3	—	304J3	0.08	1.00	2.00	0.045	0.030	8.00-10.50	17.00-19.00	—	1.00-3.00	—		A,W,B
				304HC	0.08	1.00	2.00	0.045	0.030	8.00-10.50	18.00-19.00	—	1.00-3.00	—		A,W,B
				304J3-S	0.03	1.00	2.00	0.045	0.030	8.00-10.50	17.00-19.00	—	2.00-3.00	—		A,W,B
	302HQ	—	1.4567	XM7	0.03	1.00	2.00	0.045	0.030	8.00-10.00	17.00-19.00	—	3.00-4.00	—		A,W,B
	—	XM7		302HQ	0.08	1.00	2.00	0.045	0.030	8.50-10.50	17.00-19.00	—	3.00-4.00	—		A,W,B
	305	305	—	305	0.12	1.00	2.00	0.045	0.030	10.50-13.00	17.00-19.00	—	1.00	—		A,W,B
	—	305J1	1.4303	305J1	0.08	1.00	2.00	0.045	0.030	11.00-13.50	16.50-19.00	—	—	—		A,W,B
	310S	310S	1.4845	310S	0.08	1.50	2.00	0.045	0.030	19.00-22.00	24.00-26.00	—	—	—		A,B
	310H	—	1.4845	310H	0.04-0.08	1.50	2.00	0.045	0.030	19.00-22.00	24.00-26.00	—	—	—		A,B
	316	316	1.4401	316	0.08	1.00	2.00	0.045	0.030	10.00-14.00	16.00-18.00	2.00-3.00	—	—		A,W,B
				316MF	0.08	1.00	2.00	0.045	0.015-0.030	10.00-14.00	16.00-18.00	2.00-3.00	—	—		A,W,B
	—	316F	—	316F	0.08	1.00	2.00	0.045	0.10 min.	10.00-14.00	16.00-18.00	2.00-3.00	—	—		A,W,B
	316L	—	1.4404	316L	0.03	1.00	2.00	0.045	0.030	10.00-14.00	16.00-18.00	2.00-3.00	—	—		A,W,B
				316LF	0.03	1.00	2.00	0.045	0.015-0.030	10.00-14.00	16.00-18.00	2.00-3.00	—	—		A,W,B
				316L	0.03	1.00	2.00	0.045	0.030	12.00-15.00	16.00-18.00	2.00-3.00	—	—		A,W,B

A: Maximum, unless range or minimum is indicated.

B: Available Product: A: billet · W: wire rods · B: bar

AVAILABLE STAINLESS STEEL GRADES & CHEMICAL COMPOSITION

For stainless steel billet & bar & wire rod:

	Specification				Chemical Composition (%) ^A											Available ^B Product
	AISI	JIS	DIN	WALSIN	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	N	Other	
Austenitic	—	316L	1.4404	316LS	0.03	1.00	2.00	0.045	0.015-0.030	12.00-15.00	16.00-18.00	2.00-3.00	—	—		A, W, B
	—	—	1.4578	316Cu	0.04	1.00	1.00	0.045	0.015	10.00-11.00	16.50-17.50	2.00-2.50	3.00-3.50	—		A, W, B
	316N	—	—	316N	0.08	1.00	2.00	0.045	0.030	10.00-14.00	16.00-18.00	2.00-3.00	—	0.10-0.16		A, W, B
	—	316N	—		0.08	1.00	2.00	0.045	0.030	10.00-14.00	16.00-18.00	2.00-3.00	—	0.10-0.22		A, W, B
	316LN	—	1.4406	316LN	0.03	1.00	2.00	0.045	0.030	10.00-13.00	16.00-18.00	2.00-3.00	—	0.10-0.16		A, W, B
	—	316LN			0.03	1.00	2.00	0.045	0.030	10.50-14.50	16.50-18.50	2.00-3.00	—	0.12-0.22		A, W, B
	—	316Ti	1.4571	316Ti	0.08	1.00	2.00	0.045	0.030	10.00-14.00	16.00-18.00	2.00-3.00	—	—	Ti =5XC min.	A, W, B
	317	317	—	317	0.08	1.00	2.00	0.045	0.030	11.00-15.00	18.00-20.00	3.00-4.00	—	0.10		A
	317L	—	—	317L	0.03	1.00	2.00	0.045	0.030	11.00-15.00	18.00-20.00	3.00-4.00	—	0.10		A
	—	317L			0.03	1.00	2.00	0.045	0.030	11.00-15.00	18.00-20.00	3.00-4.00	—	—		A
	321	—	—	321	0.08	1.00	2.00	0.045	0.030	9.00-12.00	17.00-19.00	—	—	—	Ti =5X(C+N)-0.70	A, W, B
	321	321	1.4541		0.08	1.00	2.00	0.045	0.030	9.00-13.00	17.00-19.00	—	—	—	Ti =5XC min.	A, W, B
	347	—	1.4550	347	0.08	1.00	2.00	0.045	0.030	9.00-12.00	17.00-19.00	—	—	—	Nb =10XC-1.10	A, W, B
	—	347			0.08	1.00	2.00	0.045	0.030	9.00-13.00	17.00-19.00	—	—	—	Nb =10XC min.	A, W, B
	347H	—	—	347H	0.04-0.10	1.00	2.00	0.045	0.030	9.00-12.00	17.00-19.00	—	—	—	Nb =8XC-1.10	A, W, B
	347HFG	—	—	347HFG	0.06-0.10	1.00	2.00	0.045	0.030	9.00-12.00	17.00-19.00	—	—	—	Nb =8XC-1.10	A
	—	—	—	A510	0.08	1.00	3.50	0.045	0.030	6.00-8.00	17.00-19.00	—	2.00-4.00	—		A, W, B
—	—	—	A510F	0.10	1.00	3.00-7.00	0.060	0.10-0.40	3.00-7.00	15.00-18.00	—	1.00-4.00	—		A, W, B	
Ferrite	409Cb	—	—	409Cb	0.06	1.00	1.00	0.045	0.040	0.50	10.50-11.70	—	—	—	Nb=10XC-0.75	A, W, B
	430	430	1.4016	430	0.12	0.75	1.00	0.040	0.030	—	16.00-18.00	—	—	—		A, W, B
	—	—	—	430Cu	0.08	1.00	2.00	0.040	0.030	—	16.00-18.00	—	0.50-1.50	—		A, W, B
	430F	430F	1.4105	430F	0.12	1.00	1.25	0.060	0.15min	—	16.00-18.00	—	—	—		A, B
	—	—	1.4511	F100	0.05	1.00	1.00	0.040	0.030	—	16.00-18.00	—	—	—	Nb:12XC -1.0	A, W, B
	—	—	—	439Ti	0.04	0.80	0.80	0.030	0.030	0.6	17.0-19.0	—	0.75	—	Ti=10 X -1.1C	A, W, B
Martensitic	410	410	1.4006	410	0.15	1.00	1.00	0.040	0.030	—	11.50-13.00	—	—	—		A, W, B
	—	—		410C	0.13-0.15	1.00	1.00	0.040	0.030	—	11.50-13.00	—	—	—		A, W, B
	403	403	1.4006	403	0.15	0.50	1.00	0.040	0.030	—	11.50-13.00	—	—	—		A, W, B
	—	410J1	1.4024	410J1	0.08-0.18	0.60	1.00	0.040	0.030	—	11.50-14.00	0.30-0.60	—	—		A, W, B
	416	416	1.4005	416	0.15	1.00	1.25	0.060	0.15min	—	12.00-14.00	—	—	—		A, W, B
	420	—	1.4021	420	0.15 min.	1.00	1.00	0.040	0.030	—	12.00-14.00	—	—	—		A, W, B
	—	420J1	1.4021	420J1	0.16-0.25	1.00	1.00	0.040	0.030	—	12.00-14.00	—	—	—		A, W, B
	—	420J2	1.4028	420J2	0.26-0.40	1.00	1.00	0.040	0.030	—	12.00-14.00	—	—	—		A, W, B
Precipitation - Hardening	431	431	1.4057	431	0.20	1.00	1.00	0.040	0.030	1.25-2.50	15.00-17.00	—	—	—		A, W, B
	630	—	1.4542	630	0.07	1.00	1.00	0.040	0.030	3.00-5.00	15.00-17.50	—	3.00-5.00	—	Nb+Ta=015-0.45	A, W, B
—	630	0.07			1.00	1.00	0.040	0.030	3.00-5.00	15.00-17.50	—	3.00-5.00	—	Nb=015-0.45	A, W, B	
Duplex	2205	—	1.4462	2205	0.03	1.00	2.00	0.030	0.020	4.50-6.50	22.00-23.00	3.00-3.50	—	0.14-0.20		A

A: Maximum, unless range or minimum is indicated.

B: Available Product: A: billet、W: wire rods、B: bar

AVAILABLE STAINLESS STEEL GRADES & CHEMICAL COMPOSITION

For stainless steel welding wire rod:

	Specification				Chemical Composition (%) ^A										Available ^B Product	
	AWS	JIS(SUS)	DIN	WALSIN	C	Si	Mn	P	S	Ni	Cr	Mo	Cu	N		Other
Austenitic	—	—	18 8 Mn	ER 307Si	0.20	1.20	5.00-8.00	0.030	0.030	7.00-10.00	17.00-20.00	—	0.75	—		A,W
	ER308	—	—	ER 308	0.08	0.30-0.65	1.00-2.50	0.030	0.030	9.00-11.00	19.50-22.00	—	0.75	—		A,W
	—	Y308	—		0.08	0.65	1.00-2.50	0.030	0.030	9.00-11.00	19.50-22.00	—	—	—		A,W
	ER308Si	Y308Si	—	ER 308Si	0.08	0.65-1.00	1.00-2.50	0.030	0.030	9.00-11.00	19.50-22.00	—	0.75	—		A,W
	ER308L	—	—	ER 308L	0.03	0.30-0.65	1.00-2.50	0.030	0.030	9.00-11.00	19.50-22.00	—	0.75	—		A,W
	—	Y308L	—		0.03	0.65	1.00-2.50	0.030	0.030	9.00-11.00	19.50-22.00	—	—	—		A,W
	ER308LSi	Y308LSi	—	ER 308LSi	0.03	0.65-1.00	1.00-2.50	0.030	0.030	9.00-11.00	19.50-22.00	—	0.75	—		A,W
	E 309L	Y309L	—	E 309L	0.03	0.65	1.0-2.50	0.030	0.030	12.00-14.00	23.00-25.00	—	0.75	—		A
	ER316	—	—	ER 316	0.08	0.30-0.65	1.00-2.50	0.030	0.030	11.00-14.00	18.00-20.00	2.00-3.00	0.75	—		A,W
	—	Y316	—		0.08	0.65	1.00-2.50	0.030	0.030	11.00-14.00	18.00-20.00	2.00-3.00	—	—		A,W
	ER316Si	Y316Si	—	ER 316Si	0.08	0.65-1.00	1.00-2.50	0.030	0.030	11.00-14.00	18.00-20.00	2.00-3.00	0.75	—		A,W
	ER316L	—	—	ER 316L	0.03	0.30-0.65	1.00-2.50	0.030	0.030	11.00-14.00	18.00-20.00	2.00-3.00	0.75	—		A,W
	—	Y316L	—		0.03	0.65	1.00-2.50	0.030	0.030	11.00-14.00	18.00-20.00	2.00-3.00	—	—		A,W
ER316LSi	Y316LSi	—	ER 316LSi	0.03	0.65-1.00	1.00-2.50	0.030	0.030	11.00-14.00	18.00-20.00	2.00-3.00	0.75	—		A,W	
Ferrite	—	—	—	ER 439Ti	0.07	1.00	1.00	0.040	0.030	0.50	17.00-19.00	—	0.75	0.04	Ti =12XC-1.10	A,W

A: Maximum, unless range or minimum is indicated.

B: Available Product: A: billet · W: wire rods