

Stainless Steel and Alloys Drawn Wire Grades

Austenitic, Martensitic, Ferritic and Duplex grades

	CHEMICAL COMPOSITION OF Ugitech GRADES													Ugitech GRADES					
	EN NUMBER	ASTM AMS AISI		C	Si	Mn	P max	S max	N	Cr	Mo	Ni	Others	UNS	JIS	Spring wires EN 10270-3	Cold heading EN 10263-5	Free machining	Others
FERRITIC	1.4000	410S	(1)	≤0.080	≤1.0	≤1.0	0.040	0.015	-	12.0/14.0	-	-	-	S41008	SUS410S	-	-	-	UGI HQ410L
	1.4016	430	(1)	≤0.080	≤1.0	≤1.0	0.040	0.030	-	16.0/18.0	-	-	-	S43000	SUS430	-	UGI H430L	-	UGI F430 UGI F430L
	1.4105		(1)	≤0.080	≤1.5	≤1.5	0.040	0.15/0.35	-	16.0/18.0	0.2/0.6	-	-	S43020	SUS430F	-	-	UGI M4105	-
	1.4113	434	(1)	≤0.080	≤1.0	≤1.0	0.040	0.030	-	16.0/18.0	0.9/1.4	-	-	S43400	SUS434	-	-	-	UGI F434
	1.4511	-	(1)	≤0.050	≤1.0	≤1.0	0.040	0.015	-	16.0/18.0	-	-	Nb: 12xC/1.0	-	-	-	-	-	UGI F4511
MARTENSITIC	1.4006	410	(1)	0.08/0.15	≤1.0	≤1.5	0.040	0.030	-	11.5/13.5	-	-	-	S41000	SUS410	-	UGI H4006	-	UGI F410
	1.4021	420	(1)	0.16/0.25	≤1.0	≤1.5	0.040	0.030	-	12.0/14.0	-	-	-	S42000	SUS420	-	-	-	UGI HQ4021
	1.4028	420	(1)	0.28/0.35	≤1.0	≤1.5	0.040	0.030	-	12.0/14.0	-	-	-	S42000	SUS420	-	UGI H4028	-	-
	1.4034	420	(1)	0.43/0.50	≤1.0	≤1.0	0.040	0.030	-	12.5/14.5	-	-	-	S42000	SUS420	-	UGI H4034	-	-
	1.4057	431	(1)	0.14/0.20	≤1.0	≤1.0	0.040	0.030	-	15.0/17.0	-	1.25/2.0	-	S43100	SUS431	-	-	-	UGI F431
	1.4116		(1)	0.45/0.55	≤1.0	≤1.0	0.040	0.030	-	14.0/15.0	0.5/0.8	-	V: 0.10/0.20 N<0.15	-	-	-	-	-	UGI 4116N UGIPURE® 4116N
	1.4121			0.20/0.25	≤1.0	1.0/1.5	0.045	0.15/0.25	-	12.0/14.0	1.0/1.5	0.8/1.2	-	-	-	-	-	-	UGI 4121 UGI 4197
	1.4542	630	(1)	≤0.070	≤0.70	≤1.0	0.040	0.030	-	15.0/17.0	≤0.6	3.0/5.0	Cu: 3.0/4.0 Nb: 5xC/0.45	S17400	SUS630	-	-	-	UGI S17-4PH UGI HQ4542
	1.4568	631	(1)	≤0.090	≤0.70	≤1.0	0.040	0.015	-	16.0/18.0	-	6.5/7.75	Al: 0.75/1.5	S17700	SUS631	UGI S301PH	-	-	-
	1.4913	-	(4)	0.17/0.23	≤0.50	0.4/0.9	0.025	0.015	0.05/0.10	10.0/11.5	0.5/0.8	0.2/0.6	Nb: 0.25/0.55 V: 0.10/0.30 B≤0.015 Al≤0.020	-	-	-	UGI H4913	-	-
1.4923	-	(4)	0.18/0.24	≤0.50	0.4/0.9	0.025	0.015	-	11.0/12.5	0.8/1.2	0.3/0.8	V: 0.25/0.35	-	-	-	UGI H4923	-	-	
AUSTENITIC	1.4301	304	(1)	≤0.070	≤1.0	≤2.0	0.045	0.030	≤0.10	18.0/19.5	-	8.0/10.5	-	S30400	SUS304	-	UGI H4301	-	UGI F304 F4301
	-	-	-	≤0.10	0.30/0.60	9.0/10.0	0.035	0.030	0.25/0.32	17.5/18.5	-	5.0/6.0	-	-	-	-	-	-	GRADE1® UGI F202N
	1.4303	305	(1)	≤0.060	≤0.75	≤2.0	0.045	0.015	≤0.10	17.0/19.0	-	11.0/13.0	-	S30500	SUS305	-	UGI H4303	-	UGI F4303
	1.4305	303	(1)	≤0.10	≤1.0	≤2.0	0.045	0.15/0.35	≤0.10	17.0/19.0	-	8.0/10.0	Cu≤1.0	S30300	SUS303	-	-	UGI U303	-
	1.4306	304L	(1)	≤0.030	≤1.0	≤2.0	0.045	0.030	≤0.10	18.0/20.0	-	10.0/12.0	-	-	SUS304L	-	-	-	UGI F4306 UGI F304L
	1.4307	304L	(1)	≤0.030	≤1.0	≤2.0	0.045	0.030	≤0.10	18.0/19.5	-	8.0/10.0	-	S30403	SUS304L	-	UGI H304L	-	UGI F304L UGI F4307
	1.4310	302	(1)	0.05/0.15	≤1.0	≤2.0	0.045	0.015	≤0.10	17.0/19.0	≤0.8	8.0/9.5	-	S30200	-	UGI S302	-	-	UGI F302
	1.4310	301	(1)	0.05/0.15	≤2.0	≤2.0	0.045	0.015	≤0.10	16.0/18.0	≤0.8	6.0/8.0	-	-	-	SPRINOX®	-	-	-
	1.4401	316	(1)	≤0.070	≤1.0	≤2.0	0.045	0.030	≤0.10	16.5/18.5	2.0/2.5	10.0/13.0	-	S31600	SUS316	UGI S316	-	-	UGI F316
	1.4404	316L	(1)	≤0.030	≤1.0	≤2.0	0.045	0.030	≤0.10	16.5/18.5	2.0/2.5	10.0/13.0	-	S31603	SUS316L	-	UGI H316L UGI H4404	-	UGI F4404 UGI F316L
	1.4435	316L	(1)	≤0.030	≤1.0	≤2.0	0.045	0.030	≤0.10	17.0/19.0	2.5/3.0	12.5/15.0	-	-	-	-	-	-	UGI F4435
	1.4438	317L	(1)	≤0.030	≤0.75	≤2.0	0.045	0.030	≤0.10	18.0/19.5	3.0/4.0	13.0/15.0	-	S31703	SUS317L	-	-	-	UGI F317
	1.4441		(7)	≤0.030	≤1.0	≤2.0	0.025	0.010	≤0.10	17.0/19.0	2.25/3.0	13.0/15.0	-	S31673	-	-	-	-	UGIPURE® 4441
	1.4472		(8)	≤0.080	≤0.75	≤2.0/4.25	0.025	0.010	0.25/0.50	19.5/22.0	2.0/3.0	9.0/11.0	Nb: 0.25/0.80 Cu<0.25	S31675	-	-	-	-	UGIPURE® 4472
	1.4529	926	(1)	≤0.020	≤0.5	≤1.0	0.030	0.010	0.15/0.25	19.0/21.0	6.0/7.0	24.0/26.0	Cu: 0.5/1.5	N08925	-	-	-	-	UGI F4529
	1.4539	904L	(1)	≤0.020	≤0.70	≤2.0	0.030	0.010	≤0.15	19.0/21.0	4.0/5.0	24.0/26.0	Cu: 1.2/2.0	N08904	SUS890L	URANUS® B6 (N)	URANUS® B6 (N)	-	UGI 904L UGI 4539
	1.4541	321	(1)	≤0.080	≤1.0	≤2.0	0.040	0.030	-	17.0/19.0	-	9.0/12.0	Ti: 5xC/0.70	-	-	-	-	-	UGI F4541
	1.4550	347	(1)	≤0.080	≤1.0	≤2.0	0.045	0.030	-	17.0/19.0	-	9.0/12.0	Nb: 10xC/1.0	S34700	-	-	-	-	UGI 4550
	1.4567	304Cu	(1)	≤0.040	<1.0	≤2.0	0.045	0.030	≤0.10	17.0/19.0	-	8.5/10.5	Cu: 3/4	S30430	SUSXM7	-	UGI H4567	-	-
	1.4571	316Ti	(1)	≤0.080	<1.0	≤2.0	0.040	0.030	-	16.5/18.0	2.0/2.5	10.5/13.5	Ti: 5xC/0.70	-	-	-	-	-	UGI F4571
	1.4578	-	(1)	≤0.040	<1.0	≤1.0	0.045	0.015	≤0.10	16.5/17.5	2.0/2.50	10.0/11.0	Cu: 3.0/3.5	-	-	-	UGI H4578	-	-
	(1.4597)	204Cu	(1)	≤0.15	<2.0	6.5/8.5	0.040	0.030	≤0.30	15.5/17.5	-	≤3.5	Cu: 2.0/4.0	-	-	-	-	-	UGI 204Cu
	1.4615 ¹	201CU		<0.03	<1.0	7.0/9.0	0.040	0.010	0.02/0.06	14.0/16.0	<0.80	4.5/6.0	Cu: 2.0/4.0	-	-	-	UGI H201CU	-	UGI F201CU
	1.4878	321H	(2)	≤0.10	<1.0	<2.0	0.045	0.015	-	17.0/19.0	-	9.0/12.0	Ti: 5xC/0.80	S32109	-	-	-	-	UGI 4878
		209		≤0.06	≤0.75	4.0/6.0	0.040	0.030	0.20/0.40	20.5/23.5	1.5/3.0	11.5/13.5	Nb: 0.10/0.30 V: 0.10/0.30	S20910	-	-	-	-	UGI F209 UGIPURE® 209
DUPLEX	1.4062 ¹	-	(1)	<0.03	<1.0	<2.0	0.035	0.015	0.05/0.20	22.0/24.0	<0.60	2.5/3.5	Cu<0.6	S32202	-	-	-	-	UGI 4062
	1.4362	-	(1)	<0.03	<1.0	<2.0	0.035	0.015	0.05/0.20	22.0/24.0	0.1/0.6	3.5/5.5	Cu: 0.1/0.6	S32304	-	-	-	-	UGI 4362
	1.4362	-	(1)	≤0.030	≤1.0	≤2.0	0.035	0.015	0.10/0.22	21.0/23.0	2.5/3.5	4.5/6.5	-	S31803	-	-	-	-	UGI 4462
	1.4507	-	(1)	≤0.030	≤0.70	≤2.0	0.035	0.015	0.20/0.30	24.0/26.0	3.0/4.0	6.0/8.0	Cu: 1.0/2.5	S32550	-	-	-	-	UGI 4507 UGI 52N+

¹Grade patented by Ugitech

