

# Stainless Steel wire rod for cutlery

## Martensitics

Brands	Standards		Chemical composition									RM max std anld	RM max max anld	Uses
			Si	Mn	Ni	Cr	Mo	Cu	S	P	V			
UGI® C4006 UGI® C410	EN 1.4006 AISI 410	Min	0.09			13.00						750	620	Cold-stamped knives
		Max	0.12	0.80	1.00	0.75	14.00	0.75	0.75	0.015	0.030			
UGI® C4021 UGI® C420L	EN 1.4021 SUS 420J1 AISI 420	Min	0.18			13.00						800	670	Basic grade warm-stamped knives attainable hardness 48 HRc
		Max	0.21	0.70	1.00	0.50	14.00	0.50	-	0.015	0.030			
UGI® C4028 UGI® C420B	EN 1.4021 SUS 420J2 AISI 420	Min	0.28			13.00						750	700	Hot-stamped knives, silver/gold-plated cutlery, attainable hardness 51 HRc
		Max	0.32	1.00	1.00	0.50	14.00	0.50		0.015	0.030			
UGI® C4034	EN 1.4034 AISI 420	Min	0.43			13.00						800	750	Scissors - attainable hardness 51 HRc
		Max	0.47	0.70	1.00	0.50	14.00		0.50	0.015	0.040			
UGI® C4116	EN 1.4116	Min	0.45			14.00	0.50			-	0.10	800	750	Professional knives and silver/gold-plated blades
		Max	0.50	0.60	1.00	0.50	15.00	0.80		0.015	0.040			
UGI® C4122	EN 1.4122	Min	0.37			15.50	0.80					800	780	Silver/gold plated blades with high hardness and good corrosion resistance
		Max	0.44	0.80	1.00	1.00	16.50	1.20		0.015	0.040			
UGI® C4109	EN 1.4109	Min	0.65			14.00	0.50						860	High hardness and good corrosion resistance
		Max	0.70	0.80	1.00	0.50	15.00	1.00		0.010	0.040			

## Ferritics

Brands	Standards		Chemical composition									RM max std anld	RM max max anld	Utilisations
			C	Si	Mn	Ni	Cr	Mo	Cu	S	P			
UGI® C4016 UGI® C430	EN 1.4016 AISI 430	Min					16.00					580	560	Kitchen utensils
		Max	0.05	0.70	1.00	0.50	17.00	0.50		0.015	0.030			



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## Austenitics

Brands	Standards		Chemical composition											Rm max	Uses		
			C	Si	Mn	Ni	Cr	Mo	Cu	S	P	Al	Ti			N	
UGI® S4301 UGI® S304	EN 1.4301 AISI 304 - SUS 304	Min	0.03		0.80	8.80	18.00									620	CWH = 112 +/- 4, low hardenability
		Max	0.06	0.70	1.50	9.50	19.00	0.50	0.50	0.015	0.040			0.05			
UGI® S4310-1 UGI® S304-1	EN 1.4310 AISI 304 - SUS 304	Min	0.06		0.50	8.20	18.00							0.02	660	CWH = 125 +/- 4	
		Max	0.08	0.70	1.00	8.80	19.80	0.50	0.50	0.015	0.040			0.06			
UGI® S302-2	EN 1.4310 AISI 302 - SUS 302	Min	0.07	0.50	0.50	8.50	18.00							0.04	650	CWH = 124 +/- 4	
		Max	0.10	1.00	1.50	9.00	19.00	0.50	0.50	0.015	0.040			0.06			
UGI® S4310-6 UGI® S302-1	EN 1.4310 AISI 302 - SUS 302	Min	0.07	0.30	0.80	8.00	17.00							0.02	680	CWH = 135 +/- 4	
		Max	0.10	0.60	1.60	8.80	18.00	0.50	0.50	0.015	0.040			0.06			
UGI® S4310-9	EN 1.4310	Min	0.09	0.80	1.00	8.00	17.00								720	CWH = 140 +/- 4, non-conform to AISI 302	
		Max	0.12	1.20	1.50	8.80	18.00	0.50	0.50	0.015	0.040			0.04			
UGI® S301-1	EN 1.4310 AISI 301 - SUS 301	Min	0.08	0.50	0.50	7.50	17.00							0.02	700	CWH = 142 +/- 4, highest hardenability	
		Max	0.12	1.00	1.20	8.00	18.00	0.50	0.50	0.015	0.040			0.04			
UGI® S4373 UGI® S202N	EN 1.4373	Min			9.00	5.00	17.50							0.25	750	High mechanical characteristics Non-magnetic properties	
		Max	0.10	1.00	10.00	6.00	18.50	0.50	0.40	0.010	0.040			0.35			
UGI® S4568A UGI® S631A	EN 1.4568 AISI 631 - SUS 631 UNS S17700	Min	0.05			7.00	16.00					0.80			820	Antennae	
		Max	0.09	0.50	1.00	7.75	17.00	0.50	0.50	0.005	0.030	1.15					
UGI® S4568 UGI® S631	EN 1.4568 AISI 631 - SUS 631 UNS S17700	Min	0.05			7.00	16.00					0.80			820	Spring with very high characteristics due to hardening treatment	
		Max	0.09	0.50	1.00	7.75	17.00	0.50	0.50	0.005	0.030	1.15					
UGI® S4401-1 UGI® S316-1	EN 1.4401 AISI 316 - SUS 316	Min	0.04	0.30	1.00	10.50	16.50	2.00						0.03	630	CWH = 104 +/- 4	
		Max	0.07	0.60	1.60	11.50	17.50	2.50	0.50	0.015	0.040			0.05			
UGI® S4539 UGI® S904L	EN 1.4539	Min				24.00	19.00	4.00	1.20					0.10	700	Very high acid resistance	
		Max	0.02	0.70	2.00	25.00	20.00	5.00	2.00	0.010	0.030			0.15			
UGI® S4571	EN 1.4571	Min				11.00	16.50	2.00					5 X C		630	-	
		Max	0.03	1.00	2.00	12.00	17.50	2.50	0.50	0.015	0.040		0.60				



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