

Superalloys, Corrosion, Elastic, Heat resisting alloys

	CHEMICAL COMPOSITION OF Ugitech GRADES												Ugitech GRADES						
	EN NUM-BER	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
HEAT RESISTING ALLOYS	1.4841	314	(2)	≤0.20	1.5/2.5	≤2.0	0.045	0.015	≤0.10	24.0/26.0	-	19.0/22.0		S31400	-	-	-	-	UGI F314
	1.4845	310	(2)	≤0.100	≤1.5	≤2.0	0.045	0.015	≤0.10	24.0/26.0	-	19.0/22.0		S31000	-	-	-	-	UGI F4845
	1.4828		(2)	≤0.20	1.5/2.5	≤2.0	0.045	0.015	≤0.10	19.0/21.0		11.0/13.0							UGI F4828
	1.4886	330	(2)	≤0.15	1.0/2.0	≤2.0	0.030	0.015	≤0.10	17.0/20.0		33.0/37.0		N08330	-	-	-	-	UGI NY330
	1.4887	330Nb	(2)	≤0.15	1.0/2.0	≤2.0	0.030	0.015	≤0.10	20.0/23.0		33.0/37.0	Nb: 1.0/1.5	-	-	-	-	-	UGI NY330Nb
	-	-	-	≤0.10	1.0/2.0	≤2.0	0.040	0.030	-	22.0/24.0		40.0/45.0		-	-	-	-	-	UGI NY845
ELASTIC	2.4851	ASTM B166	(2)	0.03/0.10	≤0.5	≤1.0	0.020	0.015	-	21.0/25.0		58.0/63.0	Fe≤18 – Al 1.0/1.7 – Ti≤0.5 Cu≤0.5 – B≤0.006 – Co≤1.5	N06601					UGI NY601
	2.4711	AMS 5844	(5)	≤0.030	≤0.15	≤0.15	≤0.01		19.0/21.0	9.0/10.5	33.0/37.0	Co: balance Fe<1.0 Ti<1.0	R30035					UGI KC35N	
	-	AMS 5833	(6)	≤0.15	≤1.20	≤2.0	0.015	0.015	-	19.0/21.0	6.0/8.0	14.0/16.0	Co=39.0/41.0 Fe=balance	R30003	-	-	-	-	PHYNOX®
CORROSION	-	ASTM A538	(7)	≤0.030	≤0.10	≤0.10	0.010	0.010	-	-	4.5/5.5	17.0/19.0	Co=8.5/9.5-Ti: 0.5/0.8 Al: 0.05/0.15	K93120	-	-	-	-	DURIMPHY®
	2.4660	ASTM B473		≤0.07	≤1.0	≤2.0	0.025	0.015	-	19.0/21.0	2.0/3.0	32.0/38.0	Cu: 3/4. – Nb=8xC/≤1 – Co≤1.5	N08020	-	-	-	-	UGI HT920S
	1.4876	800	(2)	≤0.12	≤1.0	≤2.0	0.030	0.015	-	19.0/23.0	-	30.0/34.0	Al: 0.15/0.60 Ti: 0.15/0.60	N08800	-	-	-	-	UGI HT800
	2.4858	-	-	≤0.025	≤0.50	≤1.0	0.025	0.015	-	19.5/23.5	2.5/3.5	38.0/46.0	Ti=0.60/1.20 – Cu=1.5.3.0 – Al≤0.20	N08825	-	-	-	-	UGI HT825
	2.4817	ASTM B166 AMS 5687	-	≤0.030	≤0.5	≤1.0	0.020	0.015	-	14.0/17.0	-	>72	Ti≤0.3 Al≤0.3 Fe: 6/10 Cu≤0.5 – Co≤1.0 – B≤0.006	N06600	-	-	-	-	UGI HT600
	2.4831	625 AMS 5837	(2)	≤0.10	≤0.5	≤0.5	0.020	0.015	-	20.0/23.0	8.0/10.0	>60	Fe≤5 – (Nb+Ta): 3.0/4.0Co≤1 – Cu≤0.5 A≤0.4 Ti≤0.4	N06625	-	-	-	-	UGI HT625
2.4886	276	(2)	≤0.020	≤0.08	≤1.0	0.04	0.020	-	14.5/16.5	15.0/17.0	>50	Fe: 4/7- W: 3/4.5-V≤0.40 Co≤2.5	N10276	-	-	-	-	UGI HT276	
SUPERALLOYS	1.4980	660	(3)	0.03/0.08	≤1.0	1.0/2.0	0.025	0.015	-	13.5/16.0	1.0/1.5	24.0/27.0	Ti: 1.9/2.3 Al≤0.35 V: 0.1/0.5 B: 0.03/0.010	S66286	-	-	-	-	UGI HQ286
	2.4632	AMS 5829	(4)	≤0.13	≤1.0	≤1.0	0.020	0.015	-	18.0/21.0	-	balance	Co: 15/21 Ti: 2/3 Al: 1/2- Fe≤1.5 – Cu≤0.20	N07090	-	-	-	-	UGI HT90
	2.4668	AMS 5832	(4)	0.02/0.08	≤0.35	≤0.35	0.015	0.015	-	17.0/21.0	2.8/3.3	50.0/55.0	Co≤1 Nb+Ta=4.75/5.5 Ti=0.6/1.2 Al=0.3/0.7 – B=0.002 - 0.006	N07718	-	-	-	-	UGI HT718
	2.4669	AMS 5698 AMS 5699	(3)	≤0.08	≤0.5	≤1.0	0.020	0.015	-	14.0/17.0	-	>70	Fe: 5/9 Ti 2.25/2.75 (N+Ta): 0.7/1.2 Al: 0.4/1 Cu≤0.5 – Co≤1.0	N07750	-	-	-	-	UGI HT750
	2.4952	-	(3)	0.04/0.10	≤1.0	≤1.0	0.020	0.015	-	18.0/21.0	-	>65	Ti: 1.8/2.7 Al: 1.0/1.8 Fe≤1.5 Cu≤0.2 B≤0.008 – Co≤1.0	N07080	-	-	-	-	UGI HQ80A

This table displays the main Ugitech grades only.
Please contact us for further information



» REFERENCE STANDARD

- » (1) EN 10088 Stainless Steels – Composition and delivery conditions
- » (2) EN 10095 Heat resisting steels and Nickel Alloys
- » (3) EN 10269 Steels and nickel alloys for fasteners
- » (4) EN 10302 Creep resisting steels, nickel and cobalt alloys
- » (5) ASTM F562 - ISO 5832-6: Co alloy for surgical implants
- » (6) ASTM 1058 - ISO 5832-7: Co alloy for surgical implants
- » (7) ASTM F138 – ISO 5832-1 Stainless steel for surgical implants
- » (8) ASTM F1586 – ISO 5832-9 High nitrogen stainless steel for surgical implants
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