

INTERNATIONAL COMPARISON OF GRADES



AISI	ASTM – UNS	AFNOR	EN – DIN	W. Nr.	®
HEAT RESISTING STAINLESS STEELS					
		Z 8 CA 7	X 10 CrAl 7	1.4713	SICROMAL 8
		Z 13 C 13	X 10 CrSiAl 13	1.4724	SICROMAL 9
442	S44200	Z 12 CAS 18	X 10 CrAl 18	1.4742	SICROMAL 10
446	S44600	Z 18 C 25	X 18 CrN 28	1.4749	SICROMAL 11 / 4 C 54
		Z 12 CAS 25	X 10 CrAlSi 24	1.4762	SICROMAL 12
327		Z 20 CNS 25.04	X 20 CrNiSi 25.4	1.4821	
302B / 309	S30215 / S30900	Z 17 CNS 20.12	X 15 CrNiSi 20.12	1.4828	
309(S)	S30908	Z 15 CN 24.13	X 6 CrNi 22.13	1.4833	
310 / 314	S31000 / S31400	Z 15 CNS 25.20	X 15 CrNiSi 25.20	1.4841	
310(S)	S31008	Z 8 CN 25.20	X 12 CrNi 25.21	1.4845	
330	N08330	Z 20 NCS 33.16	X 12 NiCrSi 35.16	1.4864	INCOLOY DS
	N08800	Z 10 NC 32.21	X 10 NiCrAlTi 32.20	1.4876	INCOLOY 800
321H	S32109	Z 6 CNT 18.12	X 12 CrNiTi 18.9	1.4878	
253 MA	S30815		X 9 CrNiSiN 21.11.2	1.4835	253 MA
316H	S31609	Z 6 CND 17.12	X 6 CrNiMo 17.13	1.4919	
304H	S30409	Z 6 CN 18.11	X 6 CrNi 18.11	1.4948	
	N08810	Z 10 NC 32.21	X 5 NiCrAlTi 31.20	1.4958	INCOLOY 800 H
	N08811		X 8 NiCrAlTi 32.21	1.4959	INCOLOY 800 HT
NICKEL AND NICKEL ALLOYS					
	N02200	Ni 99.2	Ni 99.2	2.4066	NICKEL 200
	N02201	LC-Ni 99	LC-Ni 99	2.4068	NICKEL 201
	N04400	Nu 30	NiCu 30 Fe	2.4360	MONEL 400
	N05500	Nu 30 AT	NiCu 30 Al	2.4375	MONEL K500
	N06022		NiCr 21 Mo 14 W	2.4602	HASTELLOY C22
	N06030		NiCr 30 FeMo	2.4603	HASTELLOY G30
	N06059		NiCr 23 Mo 16 Al	2.4605	ALLOY 59
	N06455		NiMo 16 Cr 16 Ti	2.4610	HASTELLOY C4
	N10665		NiMo 28	2.4617	HASTELLOY B2
			NiCr 22 Mo 6 Cu	2.4618	HASTELLOY G
	N06985		NiCr 22 Mo 7 Cu	2.4619	HASTELLOY G3
	N06075	NC 20 T	NiCr 20 Ti	2.4630 / 2.4951	NIMONIC 75
	N07080	NC 20 TA	NiCr 20 TiAl	2.4631 / 2.4952	NIMONIC 80 A
	N07090	NC 20 KTA	NiCr 20 Co 18 Ti	2.4632 / 2.4969	NIMONIC 90
			NiCr 25 FeAl	2.4633	ALLOY 602 CA
	N13021	NCKD 20 ATV	NiCo 20 Cr 15 Mo Al Ti	2.4634	NIMONIC 105
	N06690	NC 30 Fe	NiCr 29 Fe	2.4642	ALLOY 690
	N08020		NiCr 20 CuMo	2.4660	CARPENTER 20 Cb 3
	N06617	NC 22 KDA	NiCr 23 Co 12 Mo	2.4663	INCONEL 617
	N06002	NC 22 FeD	NiCr 22 Fe 18 Mo	2.4665 / 2.4603	HASTELLOY X
	N07718	NC 19 FeNb	NiCr 19 NbMo	2.4668	INCONEL 718
	N07750	NC 15 Fe 7 TA	NiCr 15 Fe 7 TiAl	2.4669	INCONEL X-750
	N06600	NC 15 Fe 7 TA	NiCr 15 Fe	2.4816	INCONEL 600
	N10276	NiMo 16 Cr 15	NiMo 16 Cr 15 W	2.4819	HASTELLOY C276
	N06601	NC 23 Fe	NiCr 23 Fe	2.4851	INCONEL 601
	N06625	NC 22 DNb	NiCr 22 Mo 9 Nb	2.4856	INCONEL 625
	N08825	NC 21 FeDU	NiCr 21 Mo 14 W	2.4858	INCOLOY 825
Cu-Ni - COPPER NICKEL - CUPRONICKEL - KUPFER - NICKEL					
	C70600	CuNi 10 Fe 1 Mn	CuNi 10 Fe	2.0872	CUPRONICKEL 90/10
	C71500	CuNi 30 Fe 1 Fe	CuNi 30 Fe	2.0882	CUPRONICKEL 70/30
Ti - TITANIUM - TITANE - TITAN					
	R50250	T 35		3.7025	Grade I (1)
	R50400	T 40		3.7035	Grade II (2)
	R50550	T 50		3.7055	Grade III (3)
		T 60		3.7065	Grade IV (4)
		TA 6 V		3.7164 / 3.7165	Grade V (5)
	R52400		Ti II Pd	3.7235	Grade VII (7)
	R52250		Ti I Pd	3.7225	Grade XI (11)

Quest 4 Alloys Limited is a supplier of Nickel Alloys and Stainless Steels in Sheet, Plate, Coil, Bars, Forgings, Tube, Pipe and fittings.
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SOLVING METAL SOURCING PROBLEMS

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AISI	ASTM – UNS	AFNOR	EN – DIN	W. Nr.	®
Cr STAINLESS STEELS					
410S	S41008	Z 8 C 12	X 6 Cr 13	1.4000	
441	S43932		X 2 CrTiNb 18	1.4509	
15.5 PH	S15500		X 4CrNiCuNb 16.4	1.4545	15.5 PH
410	S41000	Z 10 C 13	X 12 Cr 13	1.4006	
430	S43000	Z 8 C 17	X 6 Cr 17	1.4016	
420	S42000	Z 20 C 13	X 20 Cr 13	1.4021	
420S	J91201	Z 15 C 13	X 15 Cr 13	1.4024	
420	J91153	Z 33 C 13	X 30 Cr 13	1.4028	
409	S40900	Z 3 CT 12	X 2 CrTi 12	1.4512	
431	S43100	Z 15 CN 16.02	X 19 CrNi 17.2	1.4057	
444	S44400		X 2 CrMoTi 18.2	1.4521	
440B	S44003	Z 90 CDV 18	X 90 CrMoV 18	1.4112	
	S13800		X 3 CrNiMoA 13.8	1.4534	13.8 Mo PH
440C	S44004 / S44025	Z 100 CD 17	X 105 CrMo 17	1.4125	
439	S43035		X 5 CrTi 17	1.4510	
630	S17400	Z 7 CNU 17.04	X 5 CrNiCuNb 16.4	1.4542 / 1.4548	17.4 PH
631	S17700	Z 9 CAN 17.07	X 7 CrNiAl 17.7	1.4568	17.7 PH
Cr + Ni STAINLESS STEELS					
304	S30400	Z 6 CN 18.09	X 5 CrNi 18.10	1.4301	
305		Z 8 CN 18.12	X 5 CrNi 18.12	1.4303	
303	S30300	Z 10 CNF 18.09	X 10 CrNiS 18.9	1.4305	
304L	S30403	Z 3 CN 18.10	X 2 CrNi 19.11	1.4306	
301	S30100	Z 11 CN 18.08	X 10 CrNi 18.8	1.4310	
304LN	S30453	Z 3 CN 18.10 Az	X 2 CrNiN 18.10	1.4311	
310L		Z 1 CN 25.20	X 1 CrNi 25.21	1.4335	URANUS 65 / SS25L
	S30600	Z 1 CNS 17.15	X 1 CrNiSi 18.15	1.4361	URANUS S1 / ANTINIT
321	S32100	Z 6 CNT 18.10	X 6 CrNiTi 18.10	1.4541	
347H	S34700	Z 6 CNNb 18.10	X 6 CrNiNb 18.10	1.4550	
Cr + Ni + Mo STAINLESS STEELS					
316	S31600	Z 7 CND 17.11.02	X 5 CrNiMo 17.12.2	1.4401	
316L	S31603	Z 3 CND 18.12.02	X 2 CrNiMo 17.13.2	1.4404	
316LN	S31653	Z 3 CND 17.11 Az	X 2 CrNiMoN 17.12.2	1.4406	
316LN (Mo+)	(S31653)	Z 3 CND 17.12 Az	X 2 CrNiMoN 17.13.3	1.4429	
316L (Mo+)	S31603	Z 3 CND 18.14.03	X 2 CrNiMo 18.14.3	1.4435	
316 (Mo+)		Z 6 CND 18.12.03	X 5 CrNiMo 17.13.3	1.4436	
317L	S31703	Z 3 CND 19.15.04	X 2 CrNiMo 18.16.4	1.4438	
317LN	S31726	Z 3 CND 18.14.05 Az	X 2 CrNiMoN 17.13.5	1.4439	
(317)		Z 6 CND 17.12.04	X 5 CrNiMo 17.13	1.4449	
	N08310 / S31050	Z 2 CND 25.25 Az	X 1 CrNiMoN 25.25.2	1.4465	
	S31050	Z 2 CND 25.22 Az	X 1 CrNiMoN 25.22.2	1.4466	
		Z 5 NCDUNb 20.18	X 4 NiCrMoCuNb 20.18.2	1.4505	
253 MA			X 9 CrNiSiNc 21.11.2	1.4835	253 MA
254SMO	S31254		X 5 NiCrMoCuN 25.20.6	1.4547	19.25 6 Mo F44
904L	N08904	Z 2 NCDU 25.20	X 1 NiCrMoCu 25.20.5	1.4539	URANUS B6 / 2 RK 65
	N08028	Z 1 NCDU 31.27.03	X 1 NiCrMoCu 31.27.4	1.4563	SANICRO 28
316Ti	S31635	Z 6 CNDT 17.12	X 6 CrNiMoTi 17.12.2	1.4571	
		Z 5 CNDT 25.25	X 3 CrNiMoTi 25.25	1.4577	
316Cb/Nb	S31640	Z 6 CNDNb 17.12	X 6 CrNiMoNb 17.12.2	1.4580	
318		Z 6 CNDNb 17.13	X 10 CrNiMoNb 18.12	1.4583	
DUPLEX & SUPER DUPLEX STEELS					
	S32304	Z 3 CN 23.04 Az	X 2 CrNiN 23.4	1.4362	URANUS 35N / SAF 23.04
F53	S32750	Z 3 CND 25.07 Az	X 2 CrNiMoN 25.7.4	1.4410	URANUS 47 N
329	S32900	Z 5 CND 27.05 Az	X 3 CrNiMoN 27.5.2	1.4460	SS 44
F51 (329LN) /	S31803	Z 3 CND 22.05 Az	X 2 CrNiMoN 22.5.3	1.4462	URANUS 45N / SAF 2205
F55	S32760		X 2 CrNiMoCuWN 25.7.4	1.4501	ZERON 100
FERRALIUM	S32550	Z 3 CNDU 25.07 Az	X 2 CrNiMoCuN 25.6.3	1.4507	URANUS 52N
F49	S24565		X 2 CrNiMnMoNbN 25.18.5.4	1.4565	4565 / + 5.5 Mo

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