



HSM Wire International, Inc

Ph: 330-244-8501 Fax: 330-244-8561

www.hsmwire.com



Nominal Chemical Compositions (%)														
Alloy	Ni	Cr	C	Mn	Fe	S	P	Si	Cu	Sn	Zn	Al	Other	Typical Specification
Stainless Steels				Produced in square, flat and special shaped										
T-302	8 - 10	17-19	0.15	2.00	BAL	0.03	0.045	1.00						AMS 5866 ASTM A-313*
T-304	8 - 10.5	18-20	0.08	2.00	BAL	0.03	0.045	1.00						ASTM A-580 ASTM A-313*
T-304L	8 - 12	18-20	0.03	2.00	BAL	0.03	0.045	1.00						ASTM A-580 ASTM A-240*
T-316	10 - 14	16-18	0.08	2.00	BAL	0.03	0.045	1.00					MO 2.00-3.00	ASTM A-240* ASTM A-313*
T-316L	10 - 14	16-18	0.03	2.00	BAL	0.03	0.045	1.00					MO 2.00-3.00	ASTM A-580 ASTM A-240*
T-430	-	16-18	0.12	1.00	BAL	0.03	0.040	1.00						ASTM A-580 ASTM A-240*
17-7PH	6.5 - 7.7	16-18	0.09	1.00	BAL	0.04	0.04	1.00				.75-1.5		AMS 5678* ASTM A-313*
A-286 (1)	26	15	0.05	1.40	BAL			0.40					MO 1.25, TI 2.15	AMS 5525
Nitronic 32	.05 - 2.5	16.5 - 19.00	0.15	11.00-14.00	BAL	0.030	0.060	1.00					N .20 - .45	ASTM A-580 ASTM A-313*
Copper Alloys				Produced in round, square, flat and special shaped										
CDA 102	OFHC COPPER								99.95					ASTM B-272 ASTM B1, B2, B3^
CDA 110	ETP COPPER								99.9				0, .04	ASTM B-272 ASTM B1, B2, B3^
CDA 172	BERYLLIUM COPPER #25							0.20	98.01				BE 1.9 NI&CO .20	ASTM B-197
CDA 220	COMMERCIAL BRONZE								90		10			ASTM B-134
CDA 226	JEWELRY BRONZE								87.5		12.5			
CDA 230	RED BRASS								85		15			ASTM B-134
CDA 240	LOW BRASS								80		20			ASTM B-134
CDA 260	CARTRIDGE BRASS								70		30			ASTM B-134
CDA 270	YELLOW BRASS								65		35			ASTM B-134
CDA 510	PHOSPHOR BRONZE "A"							0.20	95	5.00				ASTM B-159
CDA 521	PHOSPHOR BRONZE "C"								92	8.00				ASTM B-160
CDA 725	COPPER-NICKEL-TIN								88	2.30			NI 9.50	
CDA 745	NICKEL SILVER (10%)								65		25		NI 10	ASTM B-206
CDA 752	NICKEL SILVER (18%)								65		17		NI 18	ASTM B-206

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* Chemistry Only

^ round wire spec

Revised R2.07.20.2013

To be used as a guideline only



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Carbon Steels				Produced in square, flat and special shaped										
C1010			.08-.13	.30-.60		0.050	0.040							ASTM A -805
C1050			.48-.55	.60-.90		0.050	0.040							ASTM A -805
C1075			.70-.80	.40-.70		0.050	0.040							ASTM A -805
C1095			.90-1.03	.30-.50		0.050	0.040							ASTM A -805
HDMB			.45-.85	.30-1.30		0.050	0.040	.15-.35						ASTM A-227*
OTMB			.55-.85	.30-1.20		0.050	0.040	.15-.35						ASTM A-229*
MUSIC WIRE			.70-1.00	.20-.60		0.030	0.025	.10-.30						ASTM A-228*
CHROME SILICON	.50 - .80		.50-.60	.50-.90		0.030	0.030	1.20-1.60						ASTM A-401*
CHROME VANADIUM	.80-1.10		.48-.53	.70-.90		0.040	0.040	.20-.35					V .15	ASTM A-231*
Nickel Alloys				Produced in square, flat and special shaped										
INCONEL 600 (2)	76.0	15.5	0.08	0.50	8.00	0.008		0.25	0.25					AMS 7232*
INCONEL 625 (2)	61.0	22	0.05	0.25	2.50	0.008		0.25				0.20	TI .20, MO 9.0 CB&TA 3.65	AMS 5666
MONEL 400 (2)	66.5		0.15	1.00	1.25	0.012		0.25	31.5					ASTM B-127*
NICKEL 200 (2)	99.5		0.10	0.18	0.20	0.005		0.18	0.13					ASTM B-160*
INCONEL X-750 (2)	73.0	15.5	0.04	0.50	7.00	0.005		0.25	0.25			0.70	TI 2.50 CB&YA 0.95	AMS 5699 AMS 5698
INCONEL 718 (2)	52.5	18.5	0.04	0.18	18.5	0.008		0.18	0.15			0.50	TI .90 MO 3.05 CB&TA 5.13	ASTM B-637* AMS 5562*
HASTELLOY C22	BAL	20.0-22.5	0.02	1.0	2.0-6.0	0.015	0.03	0.2	0.5				CO 2.5 MO 12.5 - 14.5 V .35 W 2.5-3.5	ASME A5.11 AWS A5.11
HASTELLOY C276	BAL	14.5-16.5	0.02	1.0	4.0-7.0	0.03	0.04	0.2	0.5				CO 2.5 MO 15.0- 17.0 V .35 W 3.0-4.5	ASME SFA 5.11 AWS A5.11

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