



DELTA
CENTRIFUGAL

QUICK - REFERENCE SPECIFICATIONS

(888) 433-3100

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ALLOY GROUP	SERIES	Alloy	Specifications				Properties						
			ASTM / ACI	Military	AMS	UNS	(ksi)		Yield (ksi)		Elongation (%)		Brinell Hardness
							Min	Typical	Min	Typical	Min	Typical	
AUSTENITIC STAINLESS STEEL	300	303	A743 CF16Fa		5341	J92701	70	77	30	40	25	52	150 TYP.
		304	A743 CF8	Mil S 867 A Cl.I	5370	J92600	70	77	30	37	35	55	140 TYP.
		304	A351 CF8		5501	J92600	70	77	30	37	25	55	140 TYP.
		304L	A743 CF3		5511	J92500	70	77	30	36	35	60	140 TYP.
		304L	A351 CF3		5511	J92500	70	77	30	36	35	60	140 TYP.
		HF	A297 HF			J92603	70	92	35	45	25	38	165 TYP.
		309	A297 HH			J93503	75	80	35	40	10	15	180 TYP.
		309	A743 CH 20			J93402	70	77	30	36	30	50	180 TYP.
		310	A297 HK		5366	J94224	65	75	35	50	10	17	170 TYP.
		310	A743 CK 20	Mil S 20150 Cl.A		J94202	65		28		30		170 TYP.
		312	A297 HE			J93403	85	97	40	63	9	18	190 TYP.
		312	A743 CE 30			J93423	80			40		10	190 TYP.
		316	A743 CF8M	Mil S 867A Cl.III	5507	J92900	70	80	30	42	30	50	156-170 TYP.
		316	A351 CF8M		5360	J92900	70	80	30	42	30	50	156-170 TYP.
		316L	A743 CF3M			J92800	70	80	30	38	30	55	150 TYP.
		316L	A351 CF3M			J92800	70	80	30	38	30	55	150 TYP.
		317	A743 CG8M			J93000	75	82.5	25	44	25	45	176 TYP.
		317	A351 CG8M			J93000	75	82.5	35	44	25	45	176 TYP.
		317L	A743 CG3M			J92999	75	82.5	35	44	25	45	176 TYP.
		317L	A351 CG3M			J92999	75	82.5	35	44	25	45	176 TYP.
		327	A297 HD			J93005	75	85	35	48	8	16	190 TYP.
		330	A297 HT			N08002	65	70			4	10	149 TYP.
		330	A351 HT 30			N08030	65	70	28		15		149 TYP.
		347	A743 CF8C	Mil S 867 A Cl.II	5363	J92640	70	77	30	40	30	39	149 TYP.
	347	A351 CF8C		5646	J92710	70	77	30	40	30	39	149 TYP.	
		20	ALLOY 20	A743 CN7M			N08007	62		25		35	
	ALLOY 20		A351 CN7M			N08007	62		25		35		197 TYP.

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			ASTM / ACI	Military	AMS	UNS	(ksi)		Yield (ksi)		Elongation (%)		Brinell Hardness		
							Min	Typical	Min	Typical	Min	Typical			
DELTA	50	DELTA 50	A743 CG6MMN			J93790	85		42.5		30		190 TYP.		
		DELTA 50	A351 CG6MMN			J93790	85		42.5		30		190 TYP.		
	60	DELTA 60	A351 CF10SMnN			S21800	85		42.5		30		190 TYP.		
		DELTA 60	A743 CF10SMnN			J92972	85		42.5		30		190 TYP.		
MARTENSITIC STAINLESS STEEL	400	410	A743 CA 15	Mil S.16993 Cl.I		5613	J91150	90*		65*		18*	ANNEALED 241 MAX		
		410	A217 CA 15			5351		90*		65*		18*	ANNEALED 241 MAX		
		416				5349	S41600	90*		65*		18*	ANNEALED 241 MAX		
		420	A743 CA 40				J91153	100*		70*		15*	ANNEALED 269 MAX		
		420F	A743 CA40F				J91154	100*		70*		12*	ANNEALED 269 MAX		
		431				5353	J91651		125		95		20	ANNEALED 269 MAX	
		440A						J91606		105		60		20	ANNEALED 286 MAX
		440C				5352	J91639		110		65		14	ANNEALED 302 MAX	
		CA6NM	A743 CA6NM				J91540	110	120	80	100	15	24	285 MAX	
		CA6NM	A487 CA6NM				J91540	110	120	80	100	15	24	286 MAX	
PRECIPITATION HARDENING STAINLESS STEEL	PH	15-5 PH	A747 CB7Cu-2			5346, 5347	J92110	175**	189**	150**	165**	5**	11**	375 MIN**	
		15-5 PH	A747 CB7Cu-2			5348, 5356	J92110	175**	189**	150**	165**	5**	11**	375 MIN**	
		17-4 PH	A747 CB7Cu-1			5342, 5355	J92180	175**	189**	150**	165**	5**	11**	ANNEALED 363 MAX	
		17-4 PH	A747 CB7Cu-1			5344, 5398	J92180	175**	189**	150**	165**	5**	11**	375 MIN**	
DUPLEX STAINLESS STEEL	DUPLEX	CD4MCu	A890 1A-99				J93370	100	108	70	81.5	16	25	224 MIN	
		CD4MCu	A351 CD4MCu-03				J93370	100	108	70	81.5	16	25		
		CD4MCuN	A890 1B				J93372	100		70		16			
		2A	A890 2A				J93345	95		65		25			
		2A	CE8MN				J93345	95		65		25			
		3A	A890 3A				J93371	95		65		25			
		3A	CD6MN					95		65		25			
		2205	A890 4A				J92205	90		60		25			
		2205	CD3MN					90		60		25			
		5A	A890 5A				J93404	100		75		18			
		5A	CE3MN					100		75		18			
		Z100 DUPLEX	A890 6A				J93380	100		65		25			
		Z100 DUPLEX	CD3MWCuN				J93380	100		65		25			
		254 SMO	A743 CK3MCuN				J93254	80		38		35			
		254 SMO	A351 CK3MCuN				J93254	80		38		35			
ALLOY 255						S32550									

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							Min	Typical	Min	Typical	Min	Typical		
NICKEL ALLOYS	CZ 100	CZ 100	A494 CZ100			N02100	50		18		10			
	HAST	HAST B	A494 N12 MV			5396	N30012	76		40		6		
		HAST C	A494 CW12MW				N30002	72		40		4		
	NICKEL	NICKEL 600	A494 CY40				N06040	70		28		30		
		NICKEL 625	A494 CW6MC	Mil C 24615			N26625	70		40		25		
	NICKEL	NICKEL 800	B407				N08800	75		30		30		
	Ni/Cu/Si	M-35-1	A494 M-35-1	Mil C 15345 Alloy 18			N24135	65		25		25		125-150***
		M-30-H	A494 M-30-H	Mil C 15345 Alloy 16			N24030	100		60		10		243-294***
		HI STRENGTH H		Mil C 15345 Alloy 26				120		80		10		250-300***
		M-25-S	A494 M-25-S	Mil C 15345 Alloy 17	4892		N24025	-----		-----		-----		300 MIN
	M-30-C	A494 M-30-C	Mil C 15345 Alloy 19			N24130	65		32.5		25		125-150***	
DELTA 88	DELTA 88	A494 CY5SnBiM				N26055								
NI-RESIST	NI-RESIST	Ni-RESIST 1	A436 TYPE 1	Mil G 858 Type 1			F41000	25	30				131-183	
		Ni-RESIST 2	A436 TYPE 2	Mil G 858 Type 2			F41002	25	30				118-174	
		Ni-RESIST 3	A436 TYPE 3				F41004	25	30				118-159	
COBALT	COBALT	COBALT 3		Mil C 15345 Alloy 21			R30103	85					50 RC MIN	
		COBALT 6		Mil C 15345 Alloy 20	5387		R30006	100			0.5		37 RC MIN	
COPPER NICKEL	CuNi	70-30 CuNi	B369 C96400	Mil C 20159 Type I			C96400	60	68	32	37	20	28	
		70-30 CuNi	B369 C96400	Mil C 15345 Alloy 24				60	68	32	37	20	28	
		90-10 CuNi	B369 C96200	Mil C 20159 Type II			C96200	45		25		20		
		90-10 CuNi	B369 C96200	Mil C 15345 Alloy 25			C96200	45		25		20		
AI BRONZE	COPPER ALLOY	9A AL BRZ.	B271 C95200				C95200	65		25		20		110 MIN
		9B AL BRZ.	B271 C95300				C95300	65		25		20		110 MIN
		9C AL BRZ.	B271 C95400	Mil C 15345 Alloy 13			C95400	75	85	30	35	12	18	150 MIN
		9D AL BRZ.	B271 C95500	Mil C 15345 Alloy 14	4880		C95500	90	100	40	44	6	12	190 MIN

**H925 CONDITION

***FOR INFORMATION ONLY

The alloys listed on this guide are representative of some of the alloys that we produce. This list should not be construed as all inclusive or complete.