Physical Properties of Austenitic Stainless Steel Tubes for General and Structu	ural Applications
---	-------------------

Standard Designation	Grade, Class, Type, Symbol or Name	Steel	UNS	Product Form/Heat	Thickness		Yield Strength, min		Tensile Strength, min		Elongation,	Other
		Number	Number	Treatment			2		2		min, %	Other
	Name			meatment	t, mm	t, in.	MPa min	ksi min	MPa min	ksi min		
ASTM A 269-02a	TP304		S30400	HT								192 HB; 200 HV or 90 HRB max
ASTM A 511-96	MT 304			А			207	30	517	75	35	192 HB; 90 HRB max
ASTM A 554-03	MT-304			А			207	30	517	75	35	192 HB; 90 HRB max
ASTM A 632-02a	TP 304		S30400	HT			205	30	515	75	35	
110 0 0 1 1 0 1 1 0 0 1	SUS304TKA			ST			205		520		35	
JIS G 3446:1994	SUS304TKC			AM			205		520		35	
BS 6323-8:1982 AMD	LW 21			KM			450		560		25	
2:1989	LWCF 21			KM			450		560		25	
DIN 17455:1999	X5CrNi18-10	1.4301		SA & Q			195		500-720		40 L; 35 T	
DIN 17456:1999	X5CrNi18-10	1.4301		SA & Q			195		500-700		40 L; 35 T	
AFNOR NF A 49-647:1979	TS Z 6 CN 18-09			AM			400		600		35	
ASTM A 269-02a	TP304L		S30403	HT								192 HB; 200 HV or 90 HRB max
ASTM A 511-96	MT 304L			A			207	30	517	75	35	192 HB; 90 HRB max
ASTM A 554-03	MT-304L			А			172	25	483	70	35	192 HB; 90 HRB max
ASTM A 632-02a	TP 304L		S30403	HT			170	25	485	70	35	
ASTM A 778-01	TP 304L		S30403	AM			170	25	485	70	40	
BS 6323-8:1982 AMD	LW 20			KM			420		520		25	
2:1989	LWCF 20			KM			420		520		25	
DIN 17455:1999	X2CrNi19-11	1.4306		SA & Q			180		460-680		40 L; 35 T	
DIN 17456:1999	X2CrNi19-11	1.4306		SA & Q			180		460-680		40 L; 35 T	
AFNOR NF A 49-317:1980	TU Z 2 CN 18-10			HQ			175		470		45	
AFNOR NF A 49-647:1979	TS Z 2 CN 18-10			AM			400		600		35	
ASTM A 269-02a	TP304LN		S30453	HT								192 HB; 200 HV or 90 HRB max
DIN 17455:1999	X2CrNiN18-10	1.4311		SA & Q			270		550-760		35 L; 30 T	
DIN 17456:1999	X2CrNiN18-10	1.4311		SA & Q			270		550-760		35 L; 30 T	
ASTM A 269-02a	TP316		S31600	HT								192 HB; 200 HV or 90 HRB max
ΔSTM Δ 511-96	MT 316			Δ			207	30	517	75	25	192 HB; 90

	1011 010			~	 	201	00	517	15		HRB max
ASTM A 554-03	MT-316			А	 	207	30	517	75	35	192 HB; 90 HRB max
ASTM A 632-02a	TP 316		S31600	HT	 	205	30	515	75	35	
JIS G 3446:1994	SUS316TKA			ST	 	205		520		35	
	SUS316TKC			AM	 	205		520		35	
BS 6323-8:1982 AMD	LW 23			KM	 	450		560		25	
2:1989	LWCF 23			KM	 	450		560		25	
	X5CrNiMo17-12-2	1.4401		SA & Q	 	205		510-710		40 L; 35 T	
DIN 17455:1999	X3CrNiMo17-13-3	1.4436		SA & Q	 	205		510-710		40 L; 35 T	
DIN 17456-1000	X5CrNiMo17-12-2	1.4401		SA & Q	 	205		510-710		40 L; 30 T	
DIN 17456:1999	X3CrNiMo17-13-3	1.4436		SA & Q	 	205		510-710		40 L; 30 T	
AFNOR NF A 49-647:1979	TS Z 6 CND 17-11			AM	 	400		600		35	
ASTM A 269-02a	TP316L		S31603	НТ	 						192 HB; 200 HV or 90 HRB max
ASTM A 511-96	MT 316L			A	 	207	30	517	75	35	192 HB; 90 HRB max
ASTM A 554-03	MT-316L			A	 	172	25	483	70	35	192 HB; 90 HRB max
ASTM A 632-02a	TP 316L		S31603	HT	 	170	25	485	70	35	
ASTM A 778-01	TP 316L		S31603	AM	 			485	70		
BS 6323-8:1982 AMD 2:1989	LW 22			KM	 	420		520		25	
BS 6323-8:1982 AMD 2:1989	LWCF 22			KM	 	420		520		25	
DIN 17455:1999	X2CrNiMo17-12-2	1.4404		SA & Q	 	190		490-690		40 L; 35 T	
011111435.1999	X2CrNiMo18-14-3	1.4435		SA & Q	 	190		490-690		40 L; 35 T	
DIN 17456:1999	X2CrNiMo17-12-2	1.4404		SA & Q	 	190		490-690		40 L; 30 T	
Din 17430.1999	X2CrNiMo18-14-3	1.4435		SA & Q	 	190		490-690		40 L; 30 T	
AFNOR NF A 49-317:1980	TU Z 2 CND 17-12			HQ	 	175		470		45	
ASTM A 269-02a	TP316LN		S31653	HT	 						192 HB; 200 HV or 90 HRB max
DIN 17455:1999	X2CrNiMoN17-13- 3	1.4429		SA & Q	 	295		580-800		35 L; 30 T	
DIN 17456:1999	X2CrNiMoN17-13- 3	1.4429		SA & Q	 	295		580-800		35 L; 30 T	
ASTM A 269-02a	TP321		S32100	HT	 						192 HB; 200 HV or 90 HRB max
ASTM A 511-96	MT 321			А	 	207	30	517	75	35	192 HB; 90 HRB max
ASTM A 554-03	MT-321			А	 	207	30	517	75	35	192 HB; 90 HRB max
ASTM A 632-02a	TP 321		S32100	HT	 	205	30	515	75	35	

ASTM A 778-01	TP 321		S32100	AM	 			515	75		
JIS G 3446:1994	SUS321TKA			ST	 	205		520		35	
BS 6323-8:1982 AMD	LW 24			KM	 	450		560		25	
2:1989	LWCF 24			KM	 	450		560		25	
DIN 17455:1999	X6CrNiTi18-10	1.4541		SA & Q	 	200		500-730		35 L; 30 T	
DIN 17456:1999	X6CrNiTi18-10	1.4541		SA & Q	 	200		500-730		35 L; 30 T	
DIN 17456:1999	X6CrNiTi18-10	1.4541		SA & Q (HW) see standard	 	180		460-680		35 L; 30 T	
ASTM A 269-02a	TP347		S34700	HT	 						192 HB; 200 HV or 90 HRB max
ASTM A 511-96	MT 347			А	 	207	30	517	75	35	192 HB; 90 HRB max
ASTM A 554-03	MT-347			A	 	207	30	517	75	35	192 HB; 90 HRB max
ASTM A 632-02a	TP 347		S34700	HT	 	205	30	515	75	35	
ASTM A 778-01	TP 347		S34700	AM	 			515	75		
JIS G 3446:1994	SUS347TKA			ST	 	205		520		35	
DIN 17455:1999	X6CrNiNb18-10	1.455		SA & Q	 	205		510-740		35 L; 30 T	
DIN 17456:1999	X6CrNiNb18-10	1.455		SA & Q	 	205		510-740		35 L; 30 T	
ASTM A 269-02a			S31725	HT	 						192 HB; 200 HV or 90 HRB max
DIN 17455:1999	X2CrNiMoN17-13- 5	1.4439		SA & Q	 	285		580-800		35 L; 30 T	
DIN 17456:1999	X2CrNiMoN17-13- 5	1.4439		SA & Q	 	285		580-800		35 L; 30 T	