

**Mechanical Properties of Ferritic and Martensitic Stainless Steel Tubes for General and Structural Applications**

Standard Designation	Grade, Class, Type, Symbol or Name	Steel Number	UNS Number	Product Form/Heat Treatment	Thickness		Yield Strength, min		Tensile Strength, min		Elongation, min, %	Other
					t, mm	t, in.	2	ksi min	2	ksi min		
							MPa min		MPa min			
ASTM A 268/A 268M-03	TP405	---	S40500	HT	---	---	205	30	415	60	20	207 HB; 95 HRB max
ASTM A 511-96	MT 405	---	S40500	A	---	---	207	30	414	60	20	207 HB; 95 HRB max
DIN 17456:1999	X6CrAl13	1.4002	---	A	---	---	250	---	400-600	---	20 L; 15 T	185 HB max
ASTM A 268/A 268M-03	TP410	---	S41000	HT	---	---	215	30	415	60	20	207 HB; 95 HRB max
ASTM A 511-96	MT 410	---	S41000	A	---	---	207	30	414	60	20	207 HB; 95 HRB max
JIS G 3446:1994	SUS410TKA	---	---	A	---	---	205	---	410	---	20	---
	SUS410TKC	---	---	AM	---	---	205	---	410	---	20	---
DIN 17456:1999	X12Cr13	1.4006	---	A	---	---	250	---	450-650	---	20 L; 15 T	200 HB max
ASTM A 268/A 268M-03	TP409	---	S40900	HT	---	---	470	25	380	55	20	207 HB; 95 HRB max
BS 6323-8:1982 AMD 2:1989	LW 12	---	---	KM	---	---	300	---	400	---	10	---
	LW 19	---	---	KM	---	---	300	---	400	---	10	---
DIN 17455:1999	X2CrTi12	1.4512	---	A	---	---	190	---	390-560	---	20 L; 18 T	175 HB max
DIN 17456:1999	X2CrTi12	1.4512	---	A	---	---	190	---	390-560	---	30 L; 25 T	175 HB max
ASTM A 268/A 268M-03	TP430	---	S43000	HT	---	---	240	35	415	60	20	190 HB; 90 HRB max
ASTM A 554-03	MT 430	---	S43000	A	---	---	241	35	414	60	20	190 HB; 90 HRB max
ASTM A 511-96	MT 430	---	S43000	A	---	---	241	35	414	60	20	190 HB; 90 HRB max
JIS G 3446:1994	SUS430TKA	---	---	A	---	---	245	---	410	---	20	---
	SUS430TKC	---	---	AM	---	---	245	---	410	---	20	---
DIN 17455:1999	X6Cr17	1.4016	---	A	---	---	270	---	450-600	---	20 L; 18 T	185 HB max
DIN 17456:1999	X6Cr17	1.4016	---	A	---	---	270	---	450-600	---	20 L; 15 T	185 HB max
AFNOR NF A 49-647:1979	TS Z 8 C 17	---	---	AM	---	---	300	---	450	---	16	---
ASTM A 268/A 268M-03	TP439	---	S43035	HT	---	---	205	30	415	60	20	190 HB; 90 HRB max
DIN 17455:1999	X3CrTi17	1.451	---	A	---	---	270	---	430-600	---	20 L; 18 T	185 HB max
DIN 17456:1999	X3CrTi17	1.451	---	A	---	---	270	---	450-600	---	20 L; 15 T	185 HB max