

# Welded steel tubes

for pressure purposes acc. to DIN EN 10217-7



KME produces with state-of-the-art welding technology a wide range of high quality tubes with excellent properties regarding strength, corrosion behaviour and bendability properties. Wherever there's a need for high performance tubing for pressure purpose, KME products are the first choice materials.

## Welded steel tubes for pressure purposes - Technical delivering conditions - Part 7: Tubes made of stainless steels; German version EN 10217-7:2005

Tubes in compliance with Pressure Equipment Directive AD 2000-Merkblatt HP 0

Tolerance in compliance with DIN EN ISO 1127

Tolerance class D4/T5

Tube hardness smaller than 90 HRB

Standard value for max. design pressure (bar) of metal tubes acc. to American Bureau of Shipping (ABS)

Safety factor = 1.8 against  $R_p$  0,2% yield strength

Dimensions	Tube material														
	1.4571 (AISI 316Ti)					1.4301 (AISI 304)					1.4404 / 1.4435 (AISI 316L)				
	Design pressure [bar]														
	Temperature [°C]														
	20	50	100	250	500	20	50	100	250	500	20	50	100	250	500
6 x 0,5 mm	189	182	167	141	116	176	159	141	106	83	171	164	150	114	90
6 x 1,0 mm	412	396	363	308	253	382	347	308	231	180	373	357	325	249	196
8 x 0,5 mm	139	134	123	104	85	129	117	104	78	61	126	121	110	84	66
8 x 1,0 mm	296	285	261	221	182	275	249	221	166	130	268	256	234	179	141
10 x 1,0 mm	231	222	203	173	142	214	195	173	130	101	209	200	182	140	110
10 x 1,2 mm	283	272	249	211	174	262	238	211	159	124	256	245	223	171	135
10 x 1,5 mm	364	350	321	272	224	338	307	272	205	160	329	316	288	220	173
12 x 1,0 mm	189	182	167	141	116	176	159	141	106	83	171	164	150	114	90
12 x 1,5 mm	296	285	261	221	182	275	249	221	166	130	268	256	234	179	141

Other dimensions and materials on request.

The test pressure (bar) is carried out with the 1.5-fold of the maximum permissible design pressure (for coils and straight lengths the eddy current test is carried out and coils undergoes additional testing with air under water).

Higher test pressures by a hydrostatic test (water) on request.

# Welded steel tubes

for pressure purposes acc. to DIN EN 10217-7

Welded steel tubes for pressure purposes acc. to ASTM A 269															
Tube material															
Dimensions	1.4571 (AISI 316Ti)					1.4301 (AISI 304)					1.4404 / 1.4435 (AISI 316L)				
	Design pressure [bar]														
	Temperature [°C]														
	20	50	100	250	500	20	50	100	250	500	20	50	100	250	500
1/4" x 0,035"	336	324	296	252	207	312	284	251	189	148	304	292	266	204	160
1/4" x 0,040"	393	378	346	295	242	364	331	293	222	173	355	340	310	238	188
1/4" x 0,049"	500	481	440	372	306	464	421	374	280	218	450	431	393	301	237
3/8" x 0,035"	214	206	189	160	132	199	180	160	120	94	194	182	169	130	102
3/8" x 0,040"	248	238	218	186	153	230	209	185	140	109	225	215	196	151	119
3/8" x 0,049"	311	298	274	232	190	289	262	232	174	136	280	269	245	187	148
3/8" x 0,062"	408	392	359	304	250	379	344	305	229	178	368	352	321	246	194
1/2" x 0,035"	157	151	138	117	96	146	132	117	88	69	142	136	124	95	75
1/2" x 0,040"	181	174	159	136	112	168	153	135	102	80	164	157	143	110	87
1/2" x 0,062"	292	281	257	218	179	272	247	219	164	128	265	254	232	177	139
1/2" x 0,065"	309	297	272	231	190	287	261	231	174	135	280	268	244	187	147

Other dimensions and materials on request.

The test pressure (bar) is carried out with the 1.5-fold of the maximum permissible design pressure (for coils and straight lengths the eddy current test is carried out and coils undergoes additional testing with air under water).

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Delivery lengths	
Coils	50-500 m according to dimension
Tubes in straight lengths	up to 6 m manufacturing lengths or fixed lengths

#### Further informations:

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