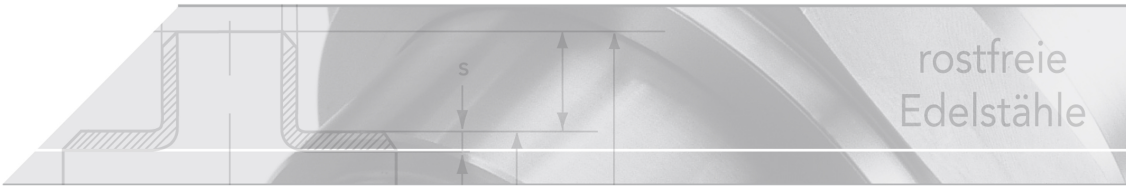
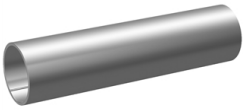
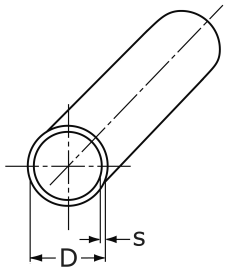


welded tube EN 10217-7

short name: RO.M*





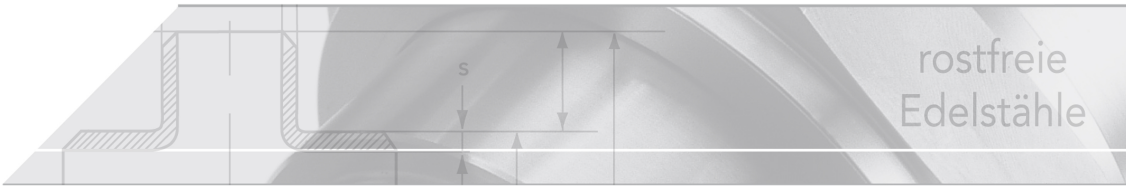
technical product sheet

D	s	Ausf	kg	Art.-Nr.
12,0	1,0	geglüht	0,275	RO-012-G10
18,0	1,5	ungeglüht	0,620	RO-018-015
18,0	1,5	geglüht	0,620	RO-018-G15
23,0	1,5	ungeglüht	0,810	RO-023-015
28,0	1,5	ungeglüht	0,995	RO-028-015
28,0	1,5	geglüht	0,995	RO-028-G15
35,0	1,5	ungeglüht	1,258	RO-035-015
35,0	1,5	geglüht	1,258	RO-035-G15
36,0	2,0	ungeglüht	2,097	RO-036-020
43,0	1,5	ungeglüht	1,560	RO-043-015
43,0	1,5	geglüht	1,559	RO-043-G15
53,0	1,5	ungeglüht	1,934	RO-053-015
54,0	2,0	ungeglüht	2,604	RO-054-020
54,0	2,0	geglüht	2,604	RO-054-G20
69,0	2,0	ungeglüht	3,366	RO-069-020
69,0	2,0	geglüht	3,366	RO-069-G20
83,0	1,5	ungeglüht	3,070	RO-083-015
84,0	2,0	ungeglüht	4,120	RO-084-020
84,0	2,0	geglüht	4,107	RO-084-G20
103,0	1,5	ungeglüht	3,825	RO-103-015
104,0	2,0	ungeglüht	5,108	RO-104-020
104,0	2,0	geglüht	4,852	RO-104-G20
106,0	3,0	ungeglüht	7,760	RO-106-030
108,0	4,0	ungeglüht	10,417	RO-108-040
108,0	4,0	geglüht	10,417	RO-108-G40
129,0	2,0	ungeglüht	6,380	RO-129-020
154,0	2,0	ungeglüht	7,636	RO-154-020
156,0	3,0	ungeglüht	11,530	RO-156-030
204,0	2,0	ungeglüht	10,120	RO-204-020
205,0	2,5	ungeglüht	12,717	RO-205-025
206,0	3,0	ungeglüht	15,247	RO-206-030
254,0	2,0	ungeglüht	12,700	RO-254-020
256,0	3,0	ungeglüht	19,010	RO-256-030
304,0	2,0	ungeglüht	15,127	RO-304-020
305,0	2,5	ungeglüht	18,990	RO-305-025
306,0	3,0	ungeglüht	22,834	RO-306-030
354,0	2,0	ungeglüht	17,730	RO-354-020

D	s	Ausf	kg	Art.-Nr.
356,0	3,0	ungeglüht	26,600	RO-356-030
406,0	3,0	ungeglüht	30,400	RO-406-M30
456,0	3,0	ungeglüht	34,200	RO-456-030
708,0	4,0	ungeglüht	70,750	RO-708-040

available material: 1.4301, 1.4404, 1.4571

Installation supplies › tubes › round › welded › metric dimensions



Longitudinal seam welded stainless steel tube acc. to DIN EN 10217-7

in manufacturing lengths of 6m

Tolerances (EN ISO 1127)

Outer diameter	Wall thickness
D1 = +/- 1,50%, min +/- 0,75 mm	T1 = +/- 15,0%, min +/- 0,60 mm
D2 = +/- 1,00%, min +/- 0,50 mm	T2 = +/- 12,5%, min +/- 0,40 mm
D3 = +/- 0,75%, min +/- 0,30 mm	T3 = +/- 10,0%, min +/- 0,20 mm
D4 = +/- 0,50%, min +/- 0,10 mm	T4 = +/- 7,50%, min +/- 0,15 mm

Comparison of materials

W.-No.	DIN	AISI
1.4301	x5CrNi 18 10	304
1.4307	x2CrNi 19 9	304 L
1.4541	x6CrNiTi 18 10	321
1.4571	x6CrNiMoTi 17 12 2	316 TI
1.4404	x2CrNiMo 17 13 2	316 L
1.4828	x15CrNiSi 20-12	309

Analyses (DIN 17440)

W.-No.	C	Cr	Ni	Mo	...
1.4301	0,07	17,0 - 19,5	8,0 - 10,5	-	-
1.4307	0,03	17,5 - 19,5	8,0 - 10,0	-	-
1.4541	0,08	17,0 - 19,0	9,0 - 12,0	-	TI 5 x % C
1.4571	0,08	16,5 - 18,5	10,5 - 13,5	2,0 - 2,5	Ti 5 x % C
1.4404	0,03	16,5 - 18,5	11,0 - 13,5	2,0 - 2,5	-
1.4435	0,03	16,5 - 18,5	11,0 - 13,5	2,0 - 2,5	-
1.4539	0,02	19,0 - 21,0	24,0 - 26,0	4,0 - 5,0	-
1.4828	0,02	19,0 - 21,0	11,0 - 13,0	-	Si 1,5 -2,0
1.4841	0,02	24,0 - 26,0	19,0 - 22,0	-	Si 1,5 -2,0

C (Carbon) max. %

Cr (Chrome) %

Ni (Nickel) %

Mo (Molybdenum) %

Ti (Titanium) min %

Si (Silicon) %

Comparison DIN <> EN

DIN (old)	EN (new)	Type of design
17455	10296-2	without special requirements
17457	10217-7	for pressure loads
PK1	TC1	Test class 1 (without AD2000/W2)
PK2	TC2	Test class 2 (with AD2000/W2)
d0	W0	not pickled, hot strip
d0g	W0b	-"-, -"-, smooth inner seam
d1	W1	pickled, hot strip
d1g	W1b	-"-, -"- , smooth inner seam
d2	W1A	heat treated, pickled, hot strip
d2g	W1Ab	-"-, -"-, -"-, smooth I-seam
d3	W1R	bright annealed, from hot strip
d3g	W1Rb	-"-, -"-, smooth inner seam
k0	W0	not pickled, cold strip
k0g	W0b	-"-, -"-, smooth inner seam
k1	W2	pickled, cold strip
k1g	W2b	-"-, -"-, smooth inner seam
k2	W2A	heat treated, pickled, cold strip
k2g	W2Ab	-"-, -"-, -"-, smooth I-seam
k3	W2R	bright annealed, from cold strip
k3g	W2Rb	-"-, -"-, smooth inner seam
11	WCA	heat treated, min 20% cold-formed
12	WCR	-"-, -"-, smooth inner seam
o	WG	ground
p	WP	polished
g	b	smoothed seam
SEP1914	10246-3	in-line eddy current testing
SEP1925	10246-2	offline eddy current testing

DIN (old)	EN (new)	Surface
17457	10217-7	metallically clean
d0	W0	metallically clean
d0g	W0b	metallically clean
d1	W1	metallically clean
d1g	W1b	metallically clean
d2	W1A	metallically clean
d2g	W1Ab	metallically clean
d3	W1R	metallically clean
d3g	W1Rb	metallically clean
k0	W0	met. clean, smoother than d0
k0g	W0b	met. clean, smoother than d0
k1	W2	met. clean, smoother than d1-d3
k1g	W2b	met. bright, smoother than d1-d3
k2	W2A	met. bright, smoother than d1-d3
k2g	W2Ab	met. bright, smoother than d1-d3
k3	W2R	met. bright, smoother than d1-d3
k3g	W2Rb	met. bright, smoother than d1-d3
11	WCA	met.bright, seam barely noticeable
12	WCR	met.bright, seam barely noticeable
o	WG	agree on grain size or Ra
p	WP	agree on quality and type