

Stainless bar steel

Order example:

MBR-Sanmac304L-100

MBR-SAN28-185

MBR-Sanmac2205-250

BR-2RE69-32

MBR, BR

- = Annealed, peel turned, burnished
- = Annealed, peel turned
- ◆ = Annealed, rough machined
- = Produced to order

Dia-meter	Weight	Sanmac 304/304L EN	Sanmac 316/316L EN	Sanmac 4571 EN	Sanmac 4435 EN	Sanmac SAF 2205 EN	Sandvik SAF 2507 EN	Sandvik Sanicro 28 EN	Sandvik 2RE69 EN
mm	kg/m	1.4307	1.4404	1.4571	1.4435	1.4462	1.4410	1.4563	1.4466
14.00	1.2								●
18.00	2.0								●
20.00	2.5	●	●			●	●	○	
22.00	3.0								●
25.00	3.9	●	●			●	●	○	
30.00	5.5	●	●	●		●	●	○	
32.00	6.4								●
35.00	7.6	●	●	●		●	●	○	
40.00	9.9	●	●	●		●	●	○	●
45.00	12.5	●	●	●		●	●	○	
50.00	15.4	●	●	●		●	●	○	
55.00	19.0	●	●	●		●	●	○	
60.00	22.2	●	●	●		●	●	○	
65.00	26.0	●	●	●		●	●	○	●
70.00	30.2	●	●	●		●	●	○	
75.00	34.7	●	●	●	○	●	●	○	
80.00	39.5	●	●	●	○	●	●	○	
85.00	44.6	○	●	●	○	●	●	○	
90.00	49.9	●	●	●	○	●	●	○	○
95.00	55.6	○	●	●	○	●	●	○	
100	61.7	○	●	●	○	●	●	●	
101.6	63.6	●	●	○	○	○	○	○	
105	68.0	●	●	●	○	●	○	○	
110	74.6	●	●	●	○	●	●	○	
114.3	80.6	○	●	○	○	○	○	○	
115	81.5	●	●	●	○	●	●	○	
120	88.8	●	●	●	○	●	●	○	●
125	96.3	●	●	●	○	●	●	○	
127	99.4	●	●	○	○	○	○	○	
130	104	●	●	●	○	●	●	○	
133.3	109.6	●	●	○	○	○	○	○	
135	112	●	●	●	○	●	●	○	
140	121	●	●	●	○	●	●	○	
145	130	○	●	●	○	●	●	○	○
150	139	●	●	●	○	●	●	●	
152.4	143.1	●	●	○	○	○	○	○	
155	149	○	●	●	○	●	○	○	
160	158	●	●	●	○	●	●	○	
165	168	●	●	●	○	●	●	○	
170	178	●	●	●	○	●	●	○	
175	189	○	○	●	○	●	○	○	
180	200	●	●	●	○	●	●	○	
185	211	●	●	○	○	●	●	●	●
190	223	●	●	●	○	●	○	○	
200	247	●	●	●	○	●	●	○	
203.2	254.4	●	●	○	○	○	○	○	
205	260	○	○				●		
210	272	●	●	●	○	●	●	○	

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Dia-meter	Weight	Sanmac 304/304L EN 1.4307	Sanmac 316/316L EN 1.4404	Sanmac 4571 EN 1.4571	Sanmac 4435 EN 1.4435	Sanmac SAF 2205 EN 1.4462	Sandvik SAF 2507 EN 1.4410	Sandvik Sanicro 28 EN 1.4563	Sandvik 2RE69 EN 1.4466
mm	kg/m								
215	285	○	○	○	○	○	○	○	
220	298	●	●	●	○	●	●	○	
225	312	●	●	●	○	●	●	○	
228.6	322.1	●	●	○	○	○	○	○	
230	326	●	●	●	○	●	●	○	
237	350.8								●
240	355	●	●	●	○	●	●	○	
241.3	358.8	●	●	○	○	○	○	○	
250	385	●	●	●	○	●	●	○	
254	397.7	●	●	○	○	○	○	○	
260	417	●	●	●	○	●			
264	435.3								○
270	450	○	●	●	○	●			
280	483	○	●	●	○	○			
285	501	●	●	●	○	●			
300	555	●	●	●		●			
320	631		■	○					
324	655.6								●
325	651	■	■	■		■			
340	713	●	○						
350	755	■	■	■		■			
375	867		◆			●			
400	987	●	◆	○		●			
406.4	1017.8	○	●	○	○	○	○	○	
425	1114	○	◆	○		◆			
450	1249	●	◆			○			

All grades = catalogue code MBR, except Sandvik 2RE69 = catalogue code BR.

Grades

Sandvik	EN	W.-Nr	UNS	AISI
Sanmac 304/304L	1.4301/ 1.4307	1.4301	S30400/S30403	Type 304/304L
Sanmac 316/316L	1.4401/ 1.4404	1.4401/ 1.4404	S31600/S31603	Type 316/316L
Sanmac 4435	1.4435	1.4436/ 1.4435	S31600/S31603	Type 316/316L
Sanmac 4571	1.4571	1.4571	S31635	Type 316Ti
Sanmac SAF 2205	1.4462	1.4462	S31803/S32205	–
Sandvik SAF 2507	1.4410	–	S32750	–
Sandvik Sanicro 28	1.4563	1.4563	N08028	–
2RE69	1.4466	1.4466	S31050	–

All bar grades fulfill the requirements of PED 97/23/EC.

Chemical compositions

Sandvik	Nominal chemical compositions, %				
	C	Cr	Ni	Mo	Others
Sanmac 304/304L	≤0.030	18.5	8.5	–	–
Sanmac 316/316L	≤0.030	17	10.5	2.1	–
Sanmac 4435	≤0.030	17.5	12.5	2.6	–
Sanmac 4571	0.03	17	11	2.1	Ti
Sanmac SAF 2205	≤0.030	22	5.5	3.2	N
Sandvik SAF 2507	≤0.030	25	7	4	N
Sandvik Sanicro 28	≤0.020	27	31	3.5	Cu
2RE69	≤0.020	25	22	2.1	N

Tolerances for mm-sizes

Diameter, mm	Tolerances, mm
14–18	-0 / +0.15
20–35	-0 / +0.15
40–45	-0 / +0.16
50–70	-0 / +0.19
75–95	-0 / +1.00
100–285	-0 / +1.50
290–350	-0 / +2.00
360–450	-0 / +3.00

Standards

Sandvik	Size range, mm
Sanmac: 304/304L, 316/316L, SAF 2205	
EN 10088-3	20–450
EN 10272	20–250 ¹⁾
ASTM A479, SA 479	20–450
NACE MR 0175	independent of size
Sanmac: 304/304L, 316/316L, 4435, 4571	
EN 10088-3	75–450
EN 10272	75–250
AD2000-W2	75–250 ²⁾ ³⁾
ASTM A479, SA 479	75–450
NACE MR 0175	independent of size
Sandvik Sanicro 28	
EN 10088-3	100–185
EN 10272	100–185
NACE MR 0175	independent of size
Sandvik SAF 2507	
EN 10088-3	20–250
EN 10272	20–160
ASTM A 479, SA 479	20–250
NACE MR 0175	independent of size
Sandvik 2RE69	
EN 10088-3	14–285
NACE MR 0175	14–285

¹⁾ Sandvik SAF 2205 20–160 mm

²⁾ Sizes >250 mm must be upgraded via TÜV

³⁾ Sanmac 4571 75–350

Lengths

Diameter, mm	Lengths, m
14–18	3–5
20–70	3.5–4.5
75–160	5–7
163–250	5–6
254–450	3–5

Surface conditions

Surface conditions	R _a µm Typical value	Size Ø mm
Peel turned, burnished	1	14–285
Peel turned	2	>285–350
Rough machined	5	>350

Certificate status according to EN 10204/3.1

For further technical information, see our websites
www.smt.sandvik.com/sanmac and www.smt.sandvik.com/techcenter