



Seamless **DUPLEX**-Stainless Steel Tubes Grade **UNS S31803 / 1.4462**

- ▶ We have extended our stock programme for you:
Seamless ferritic-austenitic tubes of material UNS S31803, available from stock (see reverse).
- ▶ The name DUPLEX denotes the two-phase structure of a ferritic, high-strength chromium steel and an austenitic CrNi-steel with an excellent corrosion resistance.
- ▶ Special properties:
 - high strength (650-880 N/mm²)
 - high resistance to pitting corrosion, crevice corrosion and stress corrosion cracking (PRE ≥ 35)
 - high resistance to abrasion
- ▶ A variety of applications in the chemical and petrochemical industry, such as on- and offshore engineering and seawater desalination plants.

Chemical composition (heat analysis in %) X2 CrNiMoN 22-5-3 / 1.4462 / UNS S31803

C	Si	Mn	P	S	N	Cr	Mo	Ni
≤0,03	≤1,00	≤2,00	≤0,035	≤0,015	0,10-0,22	21,00-23,00	2,50-3,50	4,50-6,50

Mechanical properties at room temperature

tensile strength	yield strength 0,2%	yield strength 1 %	elongation at fract. longit. (L ₀ =5 d ₀)	notch impact energy (ISO-V) longitud.
N/mm ²	N/mm ²	N/mm ²	%	J
650-880	min. 450	min. 500	min. 25	min. 100

Special grade UNS S31803 / UNS S32205 / 1.4462

▶ Seamless DUPLEX stainless steel tubes and pipes **available from stock**

OD mm	wall mm	ANSI	weight kg/m
21,34	2,77	1/2" SCH 40S	1,288
21,34	3,73	1/2" SCH 80S	1,645
26,67	2,11	3/4" SCH 10S	1,298
26,67	2,87	3/4" SCH 40S	1,710
26,67	3,91	3/4" SCH 80S	2,228
33,40	2,77	1" SCH 10S	2,125
33,40	3,38	1" SCH 40S	2,541
33,40	4,55	1" SCH 80S	3,287
33,40	6,35	1" SCH 160	4,301
42,16	2,77	1.1/4" SCH 10S	2,732
42,16	3,56	1.1/4" SCH 40S	3,441
48,26	2,77	1.1/2" SCH 10S	3,155
48,26	3,68	1.1/2" SCH 40S	4,108
48,26	5,08	1.1/2" SCH 80S	5,493
48,26	7,14	1.1/2" SCH 160	7,352
60,33	2,77	2" SCH 10S	3,992
60,33	3,91	2" SCH 40S	5,524
60,33	5,54	2" SCH 80S	7,601
60,33	8,74	2" SCH 160	11,290

OD mm	wall mm	ANSI	weight kg/m
73,03	3,05	2.1/2" SCH 10S	5,345
73,03	5,16	2.1/2" SCH 40S	8,769
73,03	7,01	2.1/2" SCH 80S	11,585
88,90	3,05	3" SCH 10S	6,557
88,90	5,49	3" SCH 40S	11,466
88,90	7,62	3" SCH 80S	15,509
88,90	11,13	3" SCH 160	21,674
114,30	3,05	4" SCH 10S	8,496
114,30	6,02	4" SCH 40S	16,322
114,30	8,56	4" SCH 80S	22,665
114,30	11,13	4" SCH 120	28,753
114,30	13,49	4" SCH 160	34,053
141,30	6,55	5" SCH 40S	22,101
168,30	3,40	6" SCH 10S	14,039
168,30	7,11	6" SCH 40S	28,697
168,30	10,97	6" SCH 80S	43,217
168,30	14,27	6" SCH 120	55,038
168,30	18,26	6" SCH 160	68,603
168,30	21,95	6" XXS	80,438
219,10	3,76	8" SCH 10S	20,274
219,10	8,18	8" SCH 40S	43,202
219,10	12,70	8" SCH 80S	65,637
219,10	18,26	8" SCH 120	91,830
219,10	23,01	8" SCH 160	112,98
273,00	9,27	10" SCH 40S	61,217
323,90	9,52	12" SCH 40S	74,942

Stock standard:

ASTM/ASME A/SA 789/790 · EN 10216-5

NACE MR 0175

Mill inspection certificate EN DIN 10204/3.1

Extended scope of inspections (upon request):

NORSOK MDS-D41 · SHELL ES/247 Rev. 1

VdTÜV-Material Data Sheet 418

Mill inspection certificate EN DIN 10204/3.2 TÜV

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