



Seamless **SUPER DUPLEX**

Stainless Steel Tubes

Grade **UNS S32760 / 1.4501**

- ▶ We have extended our stock programme for you:
Seamless ferritic/austenitic tubes of material UNS S32760;
stock sizes (see reverse).
- ▶ SUPER DUPLEX is characterized by the two-phase structure of a ferritic, high-strength chromium steel and an austenitic CrNiMo-steel with an excellent corrosion resistance. The Cr and Ni contents are higher than in standard DUPLEX stainless steels.
- ▶ Special properties:
 - very high mechanical and physical properties
 - excellent resistance to pitting corrosion, crevice corrosion and stress corrosion cracking ($PRE \geq 40$)
 - high resistance to abrasion
 - good weldability
- ▶ A variety of critical applications in the chemical and petrochemical industry, such as on- and offshore engineering and seawater desalination plants.

Chemical composition (heat analysis in %)

X2CrNiMoCuWN25-7-4 / 1.4501 / UNS S32760

C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu	W
≤0,03	≤1	≤1	≤0,03	≤0,01	0,2-0,3	24-26	3-4	6-8	0,5-1	0,5-1

Mechanical properties at room temperature

tensile strength	yield strength 0,2%	elongation at fract. longit. ($L_0=5d_0$)	notch impact energy (ISO-V) longitud.
N/mm ²	N/mm ²	%	J
800-1000	min. 550	min. 25	min. 100

Special grade **UNS S32760 / 1.4501**

▶ Seamless SUPER 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	2,87	3/4" SCH 40S	1,710
26,67	3,91	3/4" SCH 80S	2,228
33,40	3,38	1" SCH 40S	2,541
33,40	4,55	1" SCH 80S	3,287
48,26	3,68	1.1/2" SCH 40S	4,108
48,26	5,08	1.1/2" SCH 80S	5,493
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
73,03	5,16	2.1/2" SCH 40S	8,769
88,90	3,05	3" SCH 10S	6,557
88,90	5,49	3" SCH 40S	11,466
114,30	3,05	4" SCH 10S	8,496
114,30	6,02	4" SCH 40S	16,322
168,30	3,40	6" SCH 10S	14,039
168,30	7,11	6" SCH 40S	28,697
219,10	8,18	8" SCH 40S	43,202

Stock standard:

- ASTM/ASME A/SA 790
- EN 10216-5 TC2
- NACE MR 0175
- Mill inspection certificate EN 10204/3.1

Extended scope of inspections (upon request):

- NORSOK MDS D51
- Pitting Resistant Equivalent (PRE) ≥ 40
- Pitting Corrosion Test to ASTM G48 Method A
- Intergranular Corrosion (IC) Test to ASTM A262 Pract. E
- 100% Ultrasonic Test to ASTM E213
- Ferrite Content as per ASTM E562 within 35-55%

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Stahlkontor Hahn
Division of ThyssenKrupp MetalServ GmbH

Borsigstraße 2
40880 Ratingen, Germany

Tel.: +49-2102-402.207
Fax: +49-2102-402.262



stainless@s-k-h.com · www.s-k-h.com