

SEAMLESS STAINLESS STEEL PIPE

Fully softened & descaled in 5-7 metre random lengths. Tolerances & testing to ASTM A312/ASME SA312-A530. Conforming to NACE Standard MR-01-75 (latest Revision) Certificate to EN 10204 3.1. Other sizes available on request.

● U.K. STOCK

SCHEDULE 5S

Nominal Pipe Size	Finish	304/L	321	316/L
1/2"	Cold			●
3/4"	Cold			
1"	Cold	●		●
1.1/2"	Cold	●		●
2"	Cold			●
3"	Cold			●

SCHEDULE 10S

Nominal Pipe Size	Finish	304/L	321	316/L
1/8"	Cold			●
1/4"	Cold	●	●	●
3/8"	Cold	●	●	●
1/2"	Cold	●	●	●
3/4"	Cold	●	●	●
1"	Cold	●	●	●
1.1/4"	Cold	●		●
1.1/2"	Cold	●	●	●
2"	Cold	●	●	●
2.1/2"	Cold	●	●	●
3"	Hot	●	●	●
3.1/2"	Cold	●		●
4"	Hot	●	●	●
5"	Cold	●		●
6"	Hot	●	●	●
8"	Cold	●	●	●
10"	Cold			●

SCHEDULE 40S

Nominal Pipe Size	Finish	304/L	321	316/L
1/8"	Cold	●		●
1/4"	Cold	●	●	●
3/8"	Cold	●	●	●
1/2"	Cold	●	●	●
3/4"	Cold	●	●	●
1"	Cold	●	●	●
1.1/4"	Cold	●	●	●
1.1/2"	Cold	●	●	●
2"	Hot	●	●	●
2.1/2"	Hot	●	●	●
3"	Hot	●	●	●
3.1/2"	Hot	●	●	●
4"	Hot	●	●	●
5"	Hot	●	●	●
6"	Hot	●	●	●
8"	Hot	●	●	●
10"	Hot			●
12"	Hot			●

SCHEDULE 80S

Nominal Pipe Size	Finish	304/L	321	316/L
1/8"	Cold			●
1/4"	Cold	●	●	●
3/8"	Cold	●	●	●
1/2"	Cold	●	●	●
3/4"	Cold	●	●	●
1"	Cold	●	●	●
1.1/4"	Cold	●	●	●
1.1/2"	Cold	●	●	●
2"	Hot	●	●	●
2.1/2"	Hot	●	●	●
3"	Hot	●	●	●
3.1/2"	Hot	●	●	●
4"	Hot	●	●	●
5"	Hot	●		●
6"	Hot	●	●	●
8" *	Hot	●	●	●
10"	Hot			●
12"	Hot			●

* Up to 5.0 metres maximum length

SCHEDULE 120

Nominal Pipe Size	Finish	304/L	321	316/L
4"	Hot			●
6" *	Hot			●

* Up to 5.7 metres maximum length

SCHEDULE 160

Nominal Pipe Size	Finish	304/L	321	316/L
1/2"	Cold	●	●	●
3/4"	Cold	●	●	●
1"	Cold	●	●	●
1.1/4"	Hot			●
1.1/2"	Hot	●	●	●
2"	Hot	●	●	●
2.1/2"	Hot			●
3"	Hot	●	●	●
4"	Hot	●	●	●
6" *	Hot	●	●	●
8" **	Hot			●
10"	Hot			●
12"	Hot			●

* Up to 4.5 metres maximum length

** Up to 2.6 metres maximum length

SCHEDULE XXS (Double E.H.)

Nominal Pipe Size	Finish	304/L	321	316/L
1/2"	Cold			●
3/4"	Cold			●
1"	Cold			●
1.1/2"	Hot			●
2"	Hot			●
3"	Hot			●
4"	Hot			●
6" *	Hot			●

* Up to 4.4 metres maximum length

Data information on reverse



ASTM SPECIFICATIONS AND TOLERANCES

ASTM A213/A213M (Latest Edition)

Seamless Ferritic and Austenitic alloy steel boiler, superheater and heat exchanger tubes.

TOLERANCES

Outside diameter and wall thickness tolerances to ASTM A450 / A450M (Latest Edition)

Permissible variations in outside diameter		
Outside Diameter (inc Out-of-Roundness)		
Outside Diameter in.	in.	in.
	Over	Under
Cold-Drawn Tubes		
Under 1	0.004	0.004
1 to 1.1/2 inclusive	0.006	0.006
Over 1.1/2 to 2 excl.	0.008	0.008
2 to 2.1/2 excl.	0.010	0.010
2.1/2 to 3 excl.	0.012	0.012
3 to 4 incl.	0.015	0.015
Over 4	0.015	0.025
Hot-Finished Tubes		
4 & under	1/64	1/32
Over 4	1/64	3/64

For cold drawn seamless tubes under 2" OD the maximum OD variation may be ± 0.010 ". This increased variation is necessitated by ovality and is not to be added to the above values.

Permissible variations in wall thickness		
Wall Thickness %		
Outside Dia.	0.095 (2.4)	Over 0.095
in.(mm)	and Under	to 0.150 (2.4)
		to 0.180 (4.6)
		(2.4 to 3.8) inc. (3.8 to 4.6) inc.
	Over Under	Over Under
Seamless, Hot-Finished Tubes		
4 (101.6)		
& Under	40 0	35 0
Over 4 (101.6)	35 0	33 0
Seamless, Cold-Finished Tubes		
	Over	Under
1.1/2(38.1)		
& Under	20	0
Over 1.1/2 (38.1)	22	0

ASTM A269 (Latest Edition)

Seamless & Welded Austenitic Stainless Steel Tube for general corrosion resisting and low or high temperature service.

TOLERANCES

Size Outside Dia. in.	Permissible Variations in Outside Dia. in. (mm)	Permissible Variations in Wall Thickness percent	Ovality shall be double the permissible variations in outside dia. when wall thickness is less than	Permissible Variations in Cut Lengths in. (mm)
				Over Under
Up to 1/2	$\pm 0.005(0.13)$	± 15		1/8(3.2) 0
1/2 to 1.1/2 excl.	$\pm 0.005(0.13)$	± 10	0.065" (1.65mm)	1/8(3.2) 0
1.1/2 to 3.1/2 excl.	$\pm 0.010(0.25)$	± 10	0.095" (2.41mm)	3/16(4.8) 0
3.1/2 to 5.1/2 excl.	$\pm 0.015(0.38)$	± 10	0.150" (3.81mm)	3/16(4.8) 0
5.1/2 to 8 excl.	$\pm 0.030(0.76)$	± 10	0.150" (3.81mm)	3/16(4.8) 0

ASTM A312/A312M (Latest Edition)

Seamless & Welded Austenitic Steel Pipe for high temperature and general corrosive duties.

TOLERANCES – In accordance with ASTM A530

Nominal Pipe Size	Permissible Variations in Outside Diameter	
	Over	Under
1/8 to 1.1/2 inc.	1/64(0.015)	1/32(0.031)
Over 1.1/2 to 4 inc.	1/32(0.031)	1/32(0.031)
Over 4 to 8 inc.	1/16(0.062)	1/32(0.031)
Over 8 to 18 inc.	3/32(0.093)	1/32(0.031)
Over 18 to 26 inc.	1/8(0.125)	1/32(0.031)
Over 26 to 30 inc.	5/32(0.156)	1/32(0.031)

Minimum wall thickness not to exceed 12.5% under nominal wall.

ASTM A790/A790M (Latest Edition)

Seamless & Welded Ferritic/Austenitic Stainless Steel Pipe.

TOLERANCES

Permissible Variations in Outside Diameter (in.)		
NPS	Over	Under
1/8 to 1.1/2 inc.	1/64(0.015)	1/32(0.031)
Over 1.1/2 to 4 inc.	1/32(0.031)	1/32(0.031)
Over 4 to 8 inc.	1/16(0.062)	1/32(0.031)
Over 8 to 18 inc.	3/32(0.093)	1/32(0.031)
Over 18 to 26 inc.	1/8(0.125)	1/32(0.031)
Over 26 to 30 inc.	5/32(0.156)	1/32(0.031)

Minimum wall thickness not to exceed 12.5% under nominal wall.