

A270

Bright Annealed (BA) Finish

Sanitary Stainless Steel Tubing

For Pharma, Food and Sanitary Processes

RathGibson's sanitary tubing exceeds ASTM A270 S2 and 3A specifications and most user specifications.

It is manufactured from the finest quality stainless steel materials made exclusively to the RathGibson melt criteria and formed by the RathGibson Micro-Weld™ Process to assure weld seam integrity.

All standard sanitary tubing sizes are available in ½" (12.7mm) to 4" (101.6mm) OD in 20" (6.1m) lengths.

Material :

- 316L available from stock (ASTM A270 – S2)



Tubes manufactured at RathGibson, Janesville, Wisconsin, USA

Distribution in India by

TECNIK FLUID CONTROLS

Ph : +91-22-25803311 / 311/ 3100

Email : rathtubes@tecnik.in • Website : www.tecnik.in



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Mechanical Tests : To ensure the highest surface quality in all of our sanitary tubing, RathGibson goes beyond the requirements of ASTM A269 and A270 by performing the full battery of ASTM bend and deformation tests required by ASME SA249 as well as additional deformation tests developed by RathGibson. The tests, combined with specific raw material requirements, eddy current testing at the tube mill, and tighter OD and wall tolerances allow RathGibson to provide a more consistent superior quality product.

Annealing : Hydrogen bright annealed in line to 1900oF (1040oC) minimum and rapidly quenched.

Specification : Tubing shall be RathGibson Bright Annealed (BA) Stainless Steel mill finish tubing (Unpolished ID & OD)

Marking : All tubing is printed with size, gauge, alloy, ASTM and ASME specifications, heat number and date of manufacturing for full traceability.



Chemical Composition

Elements	316L (wt %)
(C) Carbon, max	0.035
(Mn) Manganese, max	2
(P) Phosphorus, max	0.04
(S) Sulfur, max	0.03
(Si) Silicon, max	0.75
(Ni) Nickel	10.0-15.0
(Cr) Chromium	16.0-18.0
(Mo) Molybdenum	2.0-3.0
(Fe) Iron	Bal.
(Cu) Copper	N / A
(N) Nitrogen	N / A

Dimensional Tolerances

all dimensions in inches (mm)

Size OD	Nominal Wall	Outside Diameter	Length	Wall
1/2" (12.7)	0.065" (1.65)	+/-0.005 (0.13)	+1/8" (3.18) - 0	+/-10.0%
3/4" (19.1)	0.065" (1.65)	+/-0.005 (0.13)	+1/8" (3.18) - 0	+/-10.0%
1" (25.4)	0.065" (1.65)	+/-0.005 (0.13)	+1/8" (3.18) - 0	+/-10.0%
1.1/2" (38.1)	0.065" (1.65)	+/-0.008 (0.20)	+1/8" (3.18) - 0	+/-10.0%
2" (50.8)	0.065" (1.65)	+/-0.008 (0.20)	+1/8" (3.18) - 0	+/-10.0%
2.1/2" (63.5)	0.065" (1.65)	+/-0.010 (0.25)	+1/8" (3.18) - 0	+/-10.0%
3" (76.2)	0.065" (1.65)	+/-0.010 (0.25)	+1/8" (3.18) - 0	+/-10.0%
4" (101.6)	0.083" (2.11)	+/-0.015 (0.38)	+1/8" (3.18) - 0	+/-10.0%
6" (152.4)	0.109" (2.77)	+/-0.030 (0.76)	+1" (25.4) - 0	+/-10.0%
8" (203.2)	0.109" (2.77)	+0.061 (1.55)	+1" (25.4) - 0	+/-10.0%

Other products available from RathGibson :-

- ASME BPE Tubing - SF1
- ID / OD Mechanical Polished Tubing - 3A
- Electropolished Sanitary Tubings (True15, True10) - SF4

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