

Smap Tube

**Bright
annealed
tube**



Where is used?

- Instrument Tubing
- Chromatography Tubing
- Hydraulic Tubing
- High Pressure Tubing
- Cleaned Tubing
- Multi Core Tubing

Standard & Tolerance

ASTM A213, ASTM A269, EN10216-5 TC1, D4/T3

Heat Treatment

Bright Annealed

Quality Assurance

Fabricant is ISO 9001&PED97/23/EC certified with 100% traceability on all instrument Tubes and material test reports (EN10204/3.1B) accompany every shipment upon request.

The grades of materials we can produce

Grade	C max	Si max	Mn max	P max	S	Cr	Ni	Mo	Ti	N max	Cu max	Fe max	Al max	Co max	Zr	Nb	Tu	Va
Austenitic																		
316/1.4401	0.080	1.00	2.00	0.045	0.030	16.0-18.0	11.0-14.0	20-30										
316L/1.4404	0.035	1.00	2.00	0.045	0.030	16.0-18.0	10.0-14.0	20-30										

Working Pressure 316/316L Stainless Steel Seamless

Wall Thickness

Tube O.D. Size	0.01	0.012	0.014	0.016	0.02	0.028	0.035	0.049	0.065	0.083	0.095	0.109	0.120	0.134	0.156	0.188
	The ratings in white indicate combination of diameter and wall thickness which are suitable for gas service.															
1/16	5600	6900	8200	9500	12100	16800										
1/8						8600	10 900									
3/16						5500	7 000	10 300								
1/4						4000	5 100	7 500	10 300							
5/16							4 100	5 900	8 100							
3/8							3 300	4 800	6 600							
1/2							2 600	3 700	5 100	6700						
5/8								3 000	4 000	5200	6100					
3/4								2 400	3 300	4300	5000	5800				
7/8								2 100	2 800	3600	4200	4900				
1									2 400	3200	3700	4200	4700			

Theoretical Bursting Pressure

	22	20	18	16	14	12
Wall Thick	0.028	0.035	0.049	0.065	0.083	0.109
Inch Diameter						
1/4	16000	20400	30000	41200		
3/8		13200	19200	26400		
1/2		10400	14800	20400	26800	
5/8			12000	16000	20800	
3/4			9600	13200	17200	23200
1				9600	1280	16800

Important.

Special care must be taken when selecting tubing for gas service.

Combinations, which do not have a pressure rating, are not recommended for use with instrument fittings.