



HIGH ALLOY

TYPE: HIGH ALLOY SEAMLESS TUBING								
IMPERIAL RANGE:								
TUBE O.D. (INCHES)	WALL THICKNESS (INCHES)	WALL THICKNESS (SWG)	WALL THICKNESS (BWG)	MINIMUM WORKING PRESSURE (PSI)	MINIMUM WORKING PRESSURE (BAR)	MINIMUM BURSTING PRESSURE (PSI)	MINIMUM BURSTING PRESSURE (BAR)	WEIGHT (KG/MTR)
1/4	0.048	18		7500	517	30,000	2069	0.17
1/4	0.064	16		10,300	710	41,200	2841	0.30
3/8	0.064	16		6600	455	26,400	1820	0.36
1/2	0.064	16		4500	310	18,000	1241	0.50
1/2	0.083		14	5900	407	23,600	1627	0.62

P
A
G
E

Special Note: The above working pressures are for guidance purposes only. Your design pressure should include a suitable allowance over the working pressure to allow for possible fluctuations of pressure during operation. This allowance should be separately determined for each application by your design department.

OTHER SIZES AVAILABLE ON REQUEST

System Temperature

Operating temperature, is another factor in determining the proper tubing material. Stainless steel tubing is suitable for higher temperature media. Special alloys such as Alloy 600 are recommended for extremely high temperatures. The table below lists derating factors which should be applied to the recommended working pressures of tubing for elevated temperature conditions. Simply locate the correct factor in the table below and multiply this to the appropriate working pressure to achieve the elevated temperature working pressure.

Temperature Derating Factors			
Temperature (°F)	316 SS & 6Mo	304 SS	Monel 400
100	1.00	1.00	1.00
200	1.00	.84	.88
300	1.00	.75	.82
400	.97	.69	.79
500	.90	.65	.79
600	.85	.61	.79
700	.82	.59	.76
800	.80	.56	.76
900	.78	.54	

Example: 1/2" x 1.0 wall seamless stainless steel tubing has a working pressure of 245 bar @ room temperature. If the system were to operate @ 800°F, a factor of 80% (or .80) would apply (see Table left) and the "at temperature" system pressure would be 245 bar x .80 = 196 bar.

BACK TO

PLEASE SEE FOLLOWING PAGE FOR FURTHER DETAILS

CATALOGUE