

## Chemical Injection Line 2507 UNS S32750

Designation		Wall Thickness		Mass per Unit Length	Calculated Inside Diameter	Tubing Area (Sq.in)		Tube Load Body		Internal Pressure (psi)		Collapse Strength	Internal Capacity per 1000ft		Torsional Yield	
		Specified	Min			W/min.	Internal min.	Yield min	Tensile min	Hydro Test 90%	Internal Yield min.					
		OD	WT	inch	inch							lb/ft	inch	inch <sup>2</sup>	inch <sup>2</sup>	lb
1/4	0.250	0.035	0.035	0.032	0.09	0.180	0.022	0.027	2,100	2,700	19,600	21,800	19,800	1.32	0.031	9
	0.250	0.049	0.049	0.044	0.11	0.152	0.029	0.021	2,800	3,600	26,500	29,400	26,200	0.94	0.022	11
	0.250	0.065	0.065	0.059	0.14	0.120	0.035	0.014	3,400	4,400	33,000	36,700	32,200	0.59	0.014	12
3/8	0.375	0.035	0.035	0.032	0.14	0.305	0.034	0.076	3,400	4,300	13,400	14,900	13,800	3.79	0.090	23
	0.375	0.049	0.049	0.044	0.18	0.277	0.046	0.065	4,500	5,800	18,500	20,500	18,700	3.13	0.075	29
	0.375	0.065	0.065	0.059	0.23	0.245	0.058	0.052	5,700	7,300	23,800	26,400	23,700	2.45	0.058	35
	0.375	0.080	0.080	0.072	0.26	0.215	0.069	0.042	6,700	8,600	28,400	31,500	27,900	1.88	0.045	38
1/2	0.500	0.049	0.049	0.044	0.25	0.402	0.063	0.133	6,200	8,100	14,000	15,600	14,500	6.59	0.157	57
	0.500	0.065	0.065	0.059	0.31	0.370	0.081	0.115	8,000	10,300	18,300	20,300	18,600	5.58	0.133	70
	0.500	0.080	0.080	0.072	0.37	0.340	0.097	0.100	9,500	12,200	22,100	24,500	22,100	4.71	0.112	79
5/8	0.625	0.049	0.049	0.044	0.31	0.527	0.080	0.226	8,000	10,300	11,300	12,600	11,100	11.32	0.270	95
	0.625	0.065	0.065	0.059	0.40	0.495	0.104	0.203	10,300	13,300	14,900	16,500	15,200	9.99	0.238	117

### Chemistry Composition

C,% 0.03 max Mn,% 1.20 max P,% 0.035 max S,% 0.020 max Si,% 0.80 max  
 Cr,% 24.0-26.0 Ni,% 6.00-8.00 Mo,% 3.00-5.00 N,% 0.24-0.32 Cu,% 0.50 max

### Mechanical Properties

Tensile Strength: 116,000psi (800MPa) min  
 Yield Strength: 90,000psi (621MPa) min  
 Hardness: 300HBW or 32HRC max

Tensile strength & yield strength minimum are calculated on specified wall.  
 Other dimensions are available on request.