

## Capillary Tubes Incoloy 825 UNS N08825 0.500

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
1/2	0.500	0.049	0.049	0.044	0.25	0.402	0.063	0.069	0.133	40,000	70,000	2,800	4,900	6,300	7,000	6,500
	0.500	0.065	0.065	0.059	0.32	0.370	0.081	0.089	0.115	40,000	70,000	3,600	6,200	8,100	9,000	8,300
	0.500	0.080	0.080	0.072	0.38	0.340	0.097	0.106	0.100	40,000	70,000	4,200	7,400	9,800	10,900	9,900

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### Chemistry Composition

C,% 0.05 max Mn,% 1.00 max S,% 0.030 max Si,% 0.50 max Cu,% 1.50-3.00  
 Cr,% 19.5-23.5 Ni,% 38.0-46.0 Mo,% 2.50-3.50 Fe,% 22.0 min Al,% 0.20 max  
 Ti,% 0.60-1.20

### Mechanical Properties

Tensile Strength: 70,000psi (483MPa) min  
 Yield Strength: 40,000psi (276MPa) min

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

**Jiangsu Tube Solution Co., Ltd.**  
 The other coiled tubing supplier

Contact: sales@tubemfg.com