

# SEAMLESS TUBE

Applicable to Straight Lengths Only; Not Applicable to Wave Guide Tube

## Rectangular (Including Square) Regular Hexagonal and Octagonal NON-REFRACTORY ALLOYS

(See Page 29)

**Table I. WALL THICKNESS TOLERANCES\***

Tolerances are plus and minus; if tolerances all plus or all minus are desired, double the value given.

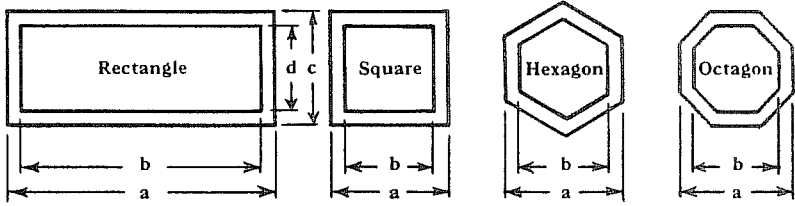
WALL THICKNESS (In Inches)	DISTANCE BETWEEN OUTSIDE PARALLEL SURFACES* (In Inches)						
	1/32 to 1/8 Incl.	Over 1/8 to 5/8 Incl.	Over 5/8 to 1 Incl.	Over 1 to 2 Incl.	Over 2 to 4 Incl.	Over 4 to 7 Incl.	Over 7 to 10 Incl.
Under .018	.002	.002	.0025	.003	....	....	....
.018 incl. to .025	.003	.0025	.003	.0035	....	....	....
.025 incl. to .035	.0035	.0035	.0035	.004	.006	....	....
.035 incl. to .058	.004	.004	.0045	.005	.007	.009	....
.058 incl. to .083	....	.005	.006	.007	.008	.010	.012
.083 incl. to .120	....	.007	.008	.009	.010	.012	.014
.120 incl. to .165	....	.009	.010	.011	.012	.014	.016
.165 incl. to .220	....	.011	.012	.013	.015	.017	.019
.220 incl. to under .284	....	....	.015	.016	.018	.020	.022

\* In the case of rectangular tube the major dimension determines the thickness tolerance applicable to all walls.

**Table II. TOLERANCES ON DISTANCE BETWEEN SURFACES\***

Tolerances are plus and minus; if tolerances all plus or all minus are desired, double the values given.

DIMENSION "a" or "b" (See sketches) (In Inches)	TOLERANCES (In Inches)
Up to 1/8 incl.	.003
Over 1/8 to 5/8 incl.	.004
Over 5/8 to 1 incl.	.005
Over 1 to 2 incl.	.006
Over 2 to 3 incl.	.007
Over 3 to 4 incl.	.008
Over 4 to 5 incl.	.009
Over 5 to 6 incl.	.010
Over 6 to 8 incl.	.011
Over 8 to 10 incl.	.012



Nominal dimension "a" determines tolerance applicable to both "a" and "c"  
Nominal dimension "b" determines tolerance applicable to both "b" and "d"

**Table III. PERMISSIBLE RADII FOR COMMERCIALY SHARP CORNERS**

WALL THICKNESSES (In Inches)	MAXIMUM RADII (In Inches)	
	Outside Corners	Inside Corners
Up to .058 incl.	3/64	1/32
Over .058 to .120 incl.	1/16	1/32
Over .120 to .250 incl.	3/32	1/32
Over .250	None established	None established

**SQUARENESS OF CUT (Applicable to Straight Lengths only):** The departure from squareness of the end of any tube shall not exceed the following:

- For tube up to and including 5/8 in. dimension across the section measured. . . . . .016 in.
- For tube over 5/8 in. dimension across the section measured. . . . . .025 in. per in. of dimension

**LENGTH TOLERANCES:** the same as for Round Seamless Tube, see Page 26.

**STRAIGHTNESS TOLERANCES:** 1/2 in. maximum curvature (depth of arc) in any 6-foot portion of the total length. (Not applicable to Extruded Tube, Redraw Tube or any Annealed tube.)

\* Tolerances on a given tube may be specified with respect to any two, but not all three of the following:

- (1) Outside dimensions
- (2) Inside dimensions
- (3) Wall thickness