Pipe & Tube Supply - 501.372.6556

Catalog Page 35

STANDARD MANUFACTURING TOLERANCES

Cold Finished Carbon Steel Bars

Tolerances are Minus

Undersize variations in inches

There are no standard tolerances for straightness of cold finished bars.

COLD DRAWN OR TURNED AND POLISHED ROUNDS

	Max Carbon Range .28% or less	Max Carbon Range over .28% to .55% incl.	Max Carbon Range to 0.55% incl. Stress Relieved or Annealed after Cold Finishing	Max Carbon Range over .55% or all Grades Quenched and Tempered or Normalized and Tempered before Cold Finishing.
1-1/2 or under Over 1-1/2 to 2-1/2, incl Over 2-1/2 to 4, incl Over 4 to 6, incl Over 6 to 8, incl Over 8 to 9, incl Over 9	.002 .003 .004 .005 .006 .007	.003 .004 .005 .006 .007 .008	.004 .005 .006 .007 .008 .009	.005 .006 .007 .008 .009 .010
COLD DRAWN HEXAGONS				
3/4 or under Over 3/4 to 1-1/2, incl Over 1-1/2 to 2-1/2, incl Over 2-1/2 to 3-1/8, incl	.002 .003 .004 .005	.003 .004 .005 .006	.004 .005 .006 .007	.006 .007 .008 .009
COLD DRAWN SQUARES				
3/4 or under Over 3/4 to 1-1/2, incl Over 1-1/2 to 2-1/2, incl Over 2-1/2 to 4, incl	.002 .003 .004 .006	.004 .005 .006	.005 .006 .007 .009	.007 .008 .009 .011
COLD DRAWN FLATS Tolerances for flats apply to thickness as well as width				
Width in inches To 3/4 incl Over 3/4 to 1-1/2, incl Over 1-1/2 to 3, incl Over 3 to 4, incl Over 4 to 6, incl Over 6	.003 .004 .005 .006 .008	.004 .005 .006 .008 .010	.006 .008 .010 .011	.008 .010 .012 .016
TURNED, GROUND and POLISHED ROUNDS COLD DRAWN, GROUND and POLISHED ROUNDS Undersize Variations in Inches				
	Turned, Ground & Polished Rounds	Cold Drawn, Ground and Polished Rounds	5	
1-1/2 and under Over 1-1/2 to less than 2-1/2 2-1/2 to 3, incl Over 3 to 4, incl Over 4 to 6, incl Over 6	.001 .0015 .002 .003 .004*	.001 .0015 .002 .003		

^{*}For nonresulphurized steels (steels specified to maximum sulphur limits under 0.08%) or for steels thermally treated, the tolerance is increased by .001".