

TOLERANCES CF CARBON BARS

Cold Drawn or Turned & Polished

Size Range in Inches	Undersize Variations In Inches			
	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 & Tempered or Normalized and Tempered Before Cold Finishing
1½ or under	.002	.003	.004	.005
Over 1½ to 2½, incl.	.003	.004	.005	.006
Over 2½ to 4, incl.	.004	.005	.006	.007
Over 4 to 6, incl.	.005	.006	.007	.008
Over 6 to 8, incl.	.006	.007	.008	.009
Over 8 to 9, incl.	.007	.008	.009	.010
Over 9	.008	.009	.010	.011

COLD DRAWN HEXAGONS

¾ or under	.002	.003	.004	.006
Over ¾ to 1½, incl.	.003	.004	.005	.007
Over 1½ to 2½, incl.	.004	.005	.006	.008
Over 2½ to 3½, incl.	.005	.006	.007	.009

COLD DRAWN SQUARES

¾ or under	.002	.004	.005	.007
Over ¾ to 1½, incl.	.003	.005	.006	.008
Over 1½ to 2½, incl.	.004	.006	.007	.009
Over 2½ to 4, incl.	.006	.008	.009	.011

COLD DRAWN FLATS

Tolerances for flats apply to thickness as well as width

Width in Inches				
To ¾, incl.	.003	.004	.006	.008
Over ¾ to 1½, incl.	.004	.005	.008	.010
Over 1½ to 3, incl.	.005	.006	.010	.012
Over 3 to 4, incl.	.006	.008	.011	.016
Over 4 to 6, incl.	.008	.010	.012	.020
Over 6	.013	.015		

TURNED, GROUND AND POLISHED ROUNDS COLD DRAWN, GROUND AND POLISHED ROUNDS

Size Range in Inches	Undersize Variations In Inches	
	Turned, Ground and Polished Rounds	Cold Drawn, Ground and Polished Rounds
1½ and under	.001	.001
Over 1½ to less than 2½	.0015	.0015
2½ to 3, incl.	.002	.002
Over 3 to 4, incl.	.003	.003
Over 4 to 6, incl.	.004*	
Over 6	.005*	

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