

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
Over 3½ to 4, incl.	.005	.006	—	—

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
Over 4 to 5, incl.	.010	—	—	—
Over 5 to 6, incl.	.014	—	—	—

COLD DRAWN FLATS

Tolerances for flats apply to thickness as well as width

Width in Inches	Undersize Variations 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	-0.0005 to -.0015	.001
Over 1½ to less than 2½	-0.0005 to -.0020	.0015
2½ to 3, incl.	-0.0005 to -.0025	.002
Over 3 to 4, incl.	-0.0005 to -.0035	.003
Over 4 to 6, incl.	-0.0005 to -.0045	.004
Over 6	-0.0005 to -.0055	.005

* All tolerances are on the minus side, +.000.

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