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American Iron and Steel Institute Part V

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ROUNDS AND SQUARES AND ROUND CORNERED SQUARES SIZE

Table 1

Specified Sizes	Variations from size		Out of Round or Square
	Over	Under	
To $\frac{5}{16}$ incl.	0.005	0.005	0.008
Over $\frac{5}{16}$ to $\frac{7}{16}$ incl.	0.006	0.006	0.009
Over $\frac{7}{16}$ to $\frac{5}{8}$ incl.	0.007	0.007	0.010
Over $\frac{5}{8}$ to $\frac{7}{8}$ incl.	0.008	0.008	0.012
Over $\frac{7}{8}$ to 1 incl.	0.009	0.009	0.013
Over 1 to $1\frac{1}{8}$ incl.	0.010	0.010	0.015
Over $1\frac{1}{8}$ to $1\frac{1}{4}$ incl.	0.011	0.011	0.016
Over $1\frac{1}{4}$ to $1\frac{3}{8}$ incl.	0.012	0.012	0.018
Over $1\frac{3}{8}$ to $1\frac{1}{2}$ incl.	0.014	0.014	0.021
Over $1\frac{1}{2}$ to 2 incl.	$\frac{1}{64}$	$\frac{1}{64}$	0.023
Over 2 to $2\frac{1}{2}$ incl.	$\frac{1}{32}$	0	0.023
Over $2\frac{1}{2}$ to $3\frac{1}{2}$ incl.	$\frac{3}{64}$	0	0.035
Over $3\frac{1}{2}$ to $4\frac{1}{2}$ incl.	$\frac{1}{16}$	0	0.046
Over $4\frac{1}{2}$ to $5\frac{1}{2}$ incl.	$\frac{5}{64}$	0	0.058
Over $5\frac{1}{2}$ to $6\frac{1}{2}$ incl.	$\frac{1}{8}$	0	0.070
Over $6\frac{1}{8}$ to 8 incl.	$\frac{5}{32}$	0	0.085

NOTE: Out-of-round is the difference between the maximum and minimum diameters of the bar, measured at the same cross-section. Out-of-square is the difference in the two dimensions at the same cross-section of a square bar, each dimension being the distance between opposite faces.

HEXAGONS SIZE

Table 2

Specified Sizes between Opposite Sides	Variation from Size		Difference 3 Measurements
	Over	Under	
To $\frac{1}{2}$ incl.	0.007	0.007	0.011
Over $\frac{1}{2}$ to 1 incl.	0.010	0.010	0.015
Over 1 to $1\frac{1}{2}$ incl.	0.021	0.013	0.025
Over $1\frac{1}{2}$ to 2 incl.	$\frac{1}{32}$	$\frac{1}{64}$	$\frac{1}{32}$
Over 2 to $2\frac{1}{2}$ incl.	$\frac{3}{64}$	$\frac{1}{64}$	$\frac{3}{64}$
Over $2\frac{1}{2}$ to $3\frac{1}{2}$ incl.	$\frac{1}{16}$	$\frac{1}{64}$	$\frac{1}{16}$