

00/03

## ISO TOLERANCES

The tolerances shown below are normally applied to metric sizes of drawn, turned and ground finish bright steel bars.

## TOLERANCES IN MILLIMETRES

The total tolerance is taken as plus zero, minus the following;

Nominal Sizes in mm	h 11	h 10	h 9	h 8	h 7
> 1 to 3	0.060	0.040	0.025	0.014	0.010
> 3 to 6	0.075	0.048	0.030	0.018	0.012
> 6 to 10	0.090	0.058	0.036	0.022	0.015
> 10 to 18	0.110	0.070	0.043	0.027	0.018
> 18 to 30	0.130	0.084	0.052	0.033	0.021
> 30 to 50	0.160	0.100	0.062	0.039	0.025
> 50 to 80	0.190	0.120	0.074	0.046	0.030
> 80 to 120	0.220	0.140	0.087	0.054	0.035
> 120  to  180	0.250	0.160	0.100	0.063	0.040

## TOLERANCES IN INCHES

The total tolerance is taken as plus zero, minus the following;

Nominal Sizes in inches	h 11	h 10	h 9	h 8	h 7
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0.00240 0.00295 0.00354 0.00433 0.00511 0.00629	0.00157 0.00189 0.00228 0.00275 0.00331 0.00393	0.00098 0.00118 0.00142 0.00169 0.00205 0.00224	0.00055 0.00071 0.00087 0.00106 0.00130 0.00153	0.00039 0.00047 0.00059 0.00071 0.00082 0.00098
$     \begin{array}{ccccccccccccccccccccccccccccccccc$	0.00748 0.00866 0.00984	0.00474 $0.00551$ $0.00629$	0.00291 0.00342 0.00393	0.00181 0.00213 0.00248	0.00118 0.00137 0.00157

## TENSILE RANGE DESIGNATIONS

FOR QUENCHED & TEMPERED HIGH TENSILE STEELS

Mechanical property designation	Tensile strength MPa			
R	> 700 \le 850			
S	> 770 \le 930			
T	> 850 \le 1 000			
U	$> 930 \le 1 080$			
V	$>1 000 \le 1 150$			
W	$>1 080 \le 1 230$			
X	>1 150 ≤1 300			
Y	>1 230 ≤1 380			
Z	>1 550			

48