

DIMENSIONAL TOLERANCES FOR COLD DRAWN PHOSPHOR BRONZE

# Alloy C51000, C52100, C52400, C53400, C54400

Manufactured to:



Designation: B139/B139M-12

Standard Specification for  
Phosphor Bronze Rod, Bar and Shapes

Tolerances to:



Designation: B249/B249-12

Standard Specification for  
General Requirements for Wrought Copper  
and Copper-Alloy Rod, Bar, Shapes and  
Forgings

Table #2

## Diameter Tolerance

	Round	Hexagon & Octagon
Up to 0.500" inclusive	+/- 0.002"	+/- 0.004"
Over 0.500" to 1.00" inclusive	+/- 0.003"	+/- 0.005"
Over 1.00" to 2.00" inclusive	+/- 0.004"	+/- 0.006"
Over 2.00"	0.20% OF THE DIAMETER	0.40% OF THE FLAT TO FLAT

### Example of the Over 2" diameter tolerance:

2.5" diameter x 0.002 (0.20%) = 0.005". Therefore, the tolerance would be +/- 0.005"

2.5" hexagon x 0.004 (0.40%) = 0.010". Therefore, the tolerance would be +/- 0.010"