

# AERONAUTICAL MATERIAL SPECIFICATION

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Revised

### T O L E R A N C E S Copper and Copper Alloy Wire

1. PURPOSE: To publish established manufacturing tolerances.
2. APPLICATION: Tolerances shown herein apply, unless otherwise agreed between purchaser and vendor. These tolerances apply to all conditions unless otherwise noted.
3. DIAMETER:

TABLE I  
HOT DIP METALLIC COATED-NOT REDRAWN

Diameter Inch	<u>Tolerance, Inch</u>	
	Non-refractory Plus	Minus
Up to 0.010, incl.	0.0003	0.0001
Over 0.010	3.0%	1.0%

TABLE II  
BARE AND METALLIC COATED-COLD DRAWN

Diameter or Distance Between Parallel Surfaces Inch	<u>Tolerance, Inch, Plus and Minus</u>			
	<u>Non-refractory</u>		<u>Refractory</u>	
	Round	Hexagon Octagon	Round	Hexagon Octagon
Up to 0.010, incl.	0.0001		0.0002	
Over 0.010 to 0.020, incl.	0.0002		0.0003	
Over 0.020 to 0.030, incl.	0.0003		0.0005	
Over 0.030 to 0.040, incl.	0.0004	0.0008	0.0007	0.002
Over 0.040 to 0.050, incl.	0.0005	0.0010	0.0008	0.003
Over 0.050 to 0.060, incl.	0.0006	0.0012	0.0010	0.003
Over 0.060 to 0.080, incl.	0.0008	0.0016	0.0015	0.004
Over 0.080 to 0.150, incl.	0.0010	0.002	0.002	0.004
Over 0.150 to 0.500, incl.	0.0015	0.003	0.002	0.004
Over 0.500 to 0.750, incl.	0.002	0.004	0.003	0.005