

AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
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AMS5110A

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MUSIC WIRE Commercial

1. ACKNOWLEDGMENT: A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.
2. FORM: Cold drawn wire supplied as coils of wire or as finished springs.
3. COMPOSITION: The chemical composition shall be that of carbon steel music wire.
4. CONDITION: Cold drawn.
5. TECHNICAL REQUIREMENTS:
 - 5.1 Tensile Properties:

Nominal Diameter Inch	Tensile Strength, psi	
	Min	Max
0.062 and under	300,000	-----
Over 0.062 to 0.091, incl	285,000	335,000
Over 0.091 to 0.124, incl	265,000	315,000
Over 0.124 to 0.149, incl	255,000	295,000
Over 0.149 to 0.174, incl	240,000	280,000
Over 0.174 to 0.191, incl	225,000	265,000
Over 0.191 to 0.250, incl	200,000	250,000

6. QUALITY:

- 6.1 The wire shall be uniform in quality, cylindrical, clean, and free from kinks, twists, scrapes, splits, and other injurious defects.
- 6.2 The surface shall have a bright, smooth, cold-drawn finish, free from pits, abrasions, and other surface imperfections.

7. TOLERANCES:

- 7.1 Variations from the specified diameter shall not exceed the following limits:

Nominal Diameter Inch	Tolerance, Inch, Plus and Minus
0.026 and under	0.0003
Over 0.026 to 0.063, incl	0.0005
Over 0.063 to 0.150, incl	0.001
Over 0.150	0.0015

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