

AERONAUTICAL MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
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AMS 5122 A

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S T E E L S T R I P
0.90-1.05C (SAE 1095)
Hard

1. **ACKNOWLEDGMENT:** A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.
2. **APPLICATION:** Primarily for washers and other stamped parts requiring smooth finish and no forming or only slight forming.
3. **COMPOSITION:**

Check Analysis
Under Min or Over Max

Carbon	0.90 - 1.05	0.05	0.05	
Manganese	0.30 - 0.50	0.03	0.03	
Phosphorus	0.040 max	--	0.01	
Sulfur	0.050 max	--	0.01	

4. **CONDITION:** Cold finished.
5. **TECHNICAL REQUIREMENTS:**
 - 5.1 **Hardness:** Rockwell C 47-52 or equivalent.
 - 5.2 **Bending:** Material or finished parts shall be capable of bending sufficiently to take a permanent deformation without cracking, with axis of bend parallel to the direction of rolling.
 - 5.3 **Finish:** Material shall have a bright finish as produced by cold rolling or polishing. A clean, blue finish as produced by heating at low temperature is acceptable.
6. **QUALITY:** Material shall be uniform in quality and condition, clean, sound, smooth, flat, and free from foreign materials and from internal and external defects detrimental to fabrication or to performance of parts.
7. **TOLERANCES:** Unless otherwise specified, thickness, width and straightness tolerances shall conform to the following:
 - 7.1 **Thickness:**

Nominal Thickness Inch	<u>Tolerance, Inch, Plus and Minus</u>		
	<u>Width Banges, Inches</u>		
	2 and under	Over 2 to 6, incl	Over 6 to 9 incl
Up to 0.020	0.001	0.001	0.0015
0.020 to 0.035	0.001	0.0015	0.002
0.035 to 0.080	0.0015	0.002	0.003
0.080 and over	0.002	0.003	0.004
Maximum variation in any one strip	0.0005	0.001	0.002