



AEROSPACE MATERIAL SPECIFICATION

Society of Automotive Engineers, Inc.
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AMS 5600A
Superseding AMS 5600

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STEEL SHEET, CORROSION RESISTANT, LAMINATED, EDGE BONDED

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 shims of special shapes in which the thickness is to be adjusted by removal of laminations as required.
3. **COMPOSITION:**

	min	max
Carbon	--	0.15
Manganese	--	2.00
Silicon	--	1.00
Phosphorus	--	0.040
Sulfur	--	0.030
Chromium	17.00 -	19.00
Nickel	8.00 -	10.00
Molybdenum	--	0.50
Copper	--	0.50

- 3.1.1 **Check Analysis:** Composition variations shall meet the requirements of the latest issue of AMS 2248.
- 3.2 **Adhesive:** Shall be of a composition which will meet the fabrication and quality requirements of this specification.
4. **FABRICATION:** Laminated shim stock shall be fabricated from corrosion resistant steel laminations in the annealed or 1/4 hard temper. Stock shall consist completely of laminations 0.002 in. \pm 0.0002 thick or 0.003 in. \pm 0.0003 thick, or partly of such laminations in combination with a single thicker lamination, as ordered, precut to the desired shape, stacked to the desired thickness, and then bonded on the outside edge with adhesive.
5. **QUALITY:**
 - 5.1 The product shall be uniform in quality and condition, clean, sound, and free from foreign materials and from internal and external imperfections detrimental to fabrication or to performance of parts.
 - 5.2 Laminations shall be bonded together in such a manner that normal handling shall not cause separation of laminations. The layers shall be capable of being readily peeled.

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