

AEROSPACE MATERIAL **SPECIFICATION**

AMS 4012C

Superseding AMS 4012B

1/15/58 Issued Revised 5/1/70

Society of Automotive Engineers, Inc.

TWO PENNSYLVANIA PLAZA, NEW YORK, N.Y. 10001

ALUMINUM SHEET, LAMINATED Edge Bonded

- ACKNOWLEDGMENT: A vendor shall mention this specification number and its revision letter in all quotations and when acknowledging purchase orders.
- APPLICATION: Primarily for shims of special shapes in which thickness is to be adjusted by removal of laminations as required.
- COMPOSITION:
- Laminations: Shall be 1100, 1145, 3003, or 5052 aluminum alloy foil. Unless otherwise specified, the choice of alloy shall be at the discretion of the producer.
- 3.2 Solid Base: Shall be AMS 4041 aluminum alloy sheet.
- Adhesive: Shall be a composition which will meet the fabrication and quality requirements of this 3.3 specification.
- **FABRICATION:**
- Laminated shim stock shall be fabricated from hard or extra hard laminations, in combination with a 4.1 solid base when required, pre-cut to the desired shape, stacked to the desired thickness, and then Ø bonded on the outside edge with adhesive. Laminations shall be 0.003 in. ± 0.0003 thick unless 0.002 in. + 0.0002 laminations are specified or required to produce the nominal laminate thickness.
- Unless otherwise specified, the product shall be of the following thicknesses and combinations of laminations and solid base:

Nominal Thickness of Shim Stock Inch	All Laminated	Half Solid Half Laminated	Three Quarters Solid One Quarter Laminated
0.006	X		
0.008	X		
0.010	X		
0.016	X		
0.020	X		
0.032	X		
0.047	X		
0.062	X	X	
0.094	X	X	
0.125	X	X	X
0.190	X	X	X

QUALITY:

Material 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.

