

AERONAUTICAL MATERIAL SPECIFICATIONS

AMS 4013

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Revised

ALUMINUM SHEET, LAMINATED, SURFACE BONDED

1. ACKNOWLEDGMENT: A vendor shall mention this specification number in all quotations and when acknowledging purchase orders.
2. APPLICATION: Primarily shims in which thickness is to be adjusted by removal of laminations as required.
3. COMPOSITION:
 - 3.1 Laminations: Shall be 1100, 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.
 - 3.3 Adhesive: Shall be of a composition which will meet the requirements of the fabrication and quality paragraphs of this specification.
4. FABRICATION:
 - 4.1 The product shall be fabricated from hard or extra hard 0.003 in. $\pm$ 0.0003 thick laminations, in combination with a solid base when required. Adjoining laminations shall be bonded together throughout the whole surface area by an adhesive which will permit peeling of the layers for adjustment of shim thickness. The thickness of each layer of adhesive shall not exceed 0.0003 inch.
 - 4.2 The product shall be available in the following thicknesses and combinations of laminations and solid base:

Nominal Thickness Inch	All Laminations	Half Solid Half Laminations	Three Quarters Solid One Quarter Laminations
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