AEROSPACE
MATERIAL SPECIFICATIONS
SOCIETY OF AUTOMOTIVE ENGINEERS, Inc. 485 Lexington Ave., New York 17, N.Y.

AMS 7325B

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RINGS, SEALING, TUBULAR METAL, CORROSION AND HEAT RESISTANT STEEL

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 seals in fluid systems at temperatures above or below those at which elastomeric or plastic materials may be used.

3. MATERIAL: Shall be AMS 5570 to AMS 5576, unless otherwise specified on the drawing.

4. FABRICATION: Rings shall be formed, and the ends welded together by flash butt welding or resistance butt welding. The welding process shall be so performed and controlled as to prevent formation of excessive internal flash. The welded rings may be formed to final dimensions by rolling or coining. Outside welding flash shall be removed flush with the OD of the tubing but wall thickness shall not be reduced below the minimum allowed for the original tube by more than the amount specified on the drawing.

5. TECHNICAL REQUIREMENTS:

5.1 Compression-Deflection Properties: The load required to produce at the weld the minimum gland depth shown in the table below shall not exceed the average of the loads required to produce the same gland depth at two points away from the weld by more than the maximum load increase shown in the table. Determinations shall be made as in 5.1.1. For rings less than 4 in. in circumference, only one determination of load away from the weld shall be made.

Nominal Tube OD Inch	Nominal Wall Thickness Inch	Gland Depth Inch, min	Load Increase %, max
0.035	0.006	0.023	50
0.062	0.006	0.042	40
	0.010	0.042	50
0.094	0.006	0.074	35
	0.010	0.074	40
0.125	0.010	0.105	35