



AEROSPACE MATERIAL SPECIFICATION	AMS5655™	REV. G
	Issued 1959-01 Reaffirmed 2010-10 Revised 2022-09 Superseding AMS5655F	
Steel, Corrosion- and Heat-Resistant, Bars, Wire, Forgings, and Forging Stock 12.5Cr - 0.75Ni - 1.0Mo - 1.0W - 0.24V (0.20-0.25C) Hardened and Tempered (Composition similar to UNS S42200)		

RATIONALE

AMS5655G is the result of a Five-Year Review and update of the specification. The revision updates the title to match the scope, updates composition and reporting (3.1, 3.1.1), prohibits bars being cut from plate (3.2.1, 4.4.3), adds tensile strain rate for bar and forgings (3.4.2.1.1), updates decarburization requirement (3.4.2.4.4), removes hardness and impact requirements from wire as not applicable (3.4.2.2, 3.4.2.3, 4.2.1.3), adds AS1182 (3.5, 8.4), prohibits unauthorized exceptions (3.7, 4.4.4, 5.2.1.1, 8.6), allows prior revision (8.5), and adds forging stock preferences (8.7).

1. SCOPE

1.1 Form

This specification covers a corrosion- and heat-resistant steel in the form of bars, wire, forgings, and forging stock.

1.2 Application

These products have been used typically for parts requiring strength and oxidation resistance up to 1000 °F (538 °C), but usage is not limited to such applications.

2. APPLICABLE DOCUMENTS

The issue of the following documents in effect on the date of the purchase order forms a part of this specification to the extent specified herein. The supplier may work to a subsequent revision of a document unless a specific document issue is specified. When the referenced document has been cancelled and no superseding document has been specified, the last published issue of that document shall apply.

2.1 SAE Publications

Available from SAE International, 400 Commonwealth Drive, Warrendale, PA 15096-0001, Tel: 877-606-7323 (inside USA and Canada) or +1 724-776-4970 (outside USA), www.sae.org.

AMS2241 Tolerances, Corrosion- and Heat-Resistant Steel, Iron Alloy, Titanium, and Titanium Alloy Bars and Wire

AMS2248 Chemical Check Analysis Limits, Corrosion- and Heat-Resistant Steels and Alloys, Maraging and Other Highly Alloyed Steels, and Iron Alloys

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