



AEROSPACE MATERIAL SPECIFICATION	AMS6528™	REV. E
	Issued 1987-04 Reaffirmed 2007-04 Revised 2022-10 Superseding AMS6528D	
Steel, Bars 0.95Cr - 0.20Mo (0.28 - 0.33C) (SAE 4130) Special Aircraft Quality Cleanliness Normalized (Composition similar to AISI G41300)		

RATIONALE

AMS6528E is the result of a Five-Year Review and update of the specification. The revision updates the composition spec and reporting requirements (3.1, 3.1.2), deletes engineering approval (3.3.1), modifies Jominy testing requirements (3.3.3), updates decarburization requirements (3.4.4), prohibits unauthorized exceptions (3.6, 4.4.3, 8.7), incorporates updates to AMS2304 (4.2.1, 4.4.1, 4.4.4), updates bar from plate requirement (4.4.2), standardizes reporting (4.5.1), adds information on surface finish (8.4), and permits prior revisions (8.5).

1. SCOPE

1.1 Form

This specification covers a special aircraft-quality, low-alloy steel in the form of bars.

1.2 Application

These bars have been used typically for parts required to meet stringent magnetic inspection criteria, having sections 0.50 inch (12.7 mm) and under in nominal thickness and after or heat treatment, and requiring a through-hardening steel capable of developing hardness as high as 35 HRC when properly hardened and tempered, and also for parts of greater thickness, but requiring proportionately lower hardness. Usage is not limited to such applications.

2. APPLICABLE DOCUMENTS

The issue of the following document in effect on the date of the purchase order forms a part of this specification to the extent specified herein. The supplier may warrant 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.

AMS2251 Tolerances, Low-Alloy Steel Bars

AMS2259 Chemical Check Analysis Limits, Wrought Low-Alloy and Carbon Steels

SAE Permissive Standards Committee Rules provide that: "This report is published by SAE to advance the state of technical and engineering sciences. The use of this report is entirely voluntary, and its applicability and suitability for any particular use, including any patent infringement arising therefrom, is the sole responsibility of the user."

SAE reviews each technical report at least every five years at which time it may be revised, reaffirmed, stabilized, or cancelled. SAE invites your written comments and suggestions.

Copyright © 2022 SAE International

All rights reserved. No part of this publication may be reproduced, stored in a retrieval system or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without the prior written permission of SAE.

TO PLACE A DOCUMENT ORDER: Tel: 877-606-7323 (inside USA and Canada)
 Tel: +1 724-776-4970 (outside USA)
 Fax: 724-776-0790
 Email: CustomerService@sae.org
 http://www.sae.org

SAE WEB ADDRESS:

For more information on this standard, visit
<https://www.sae.org/standards/content/AMS6528E/>