



AEROSPACE STANDARD	AS1260	REV. A
	Issued	1972-05
	Stabilized	2014-11
Superseding AS1260		
Equivalent Sections of Certain Shapes to Round Bars		

RATIONALE

AS1260A has been declared stabilized as mature technology.

STABILIZED NOTICE

AS1260 has been declared "STABILIZED" by AMS Committee E. This document will no longer be updated and may no longer represent standard industry practice. This document was stabilized as this document contains mature technology that is not expected to change and thus no further revisions are anticipated. Previously this document was reaffirmed. The last technical update of this document occurred in May 1972. Users of this document should refer to the cognizant engineering organization for disposition of any issues with reports/certifications to this specification; including exceptions listed on the certification. NOTE: In many cases, the purchaser may represent a sub tier supplier and not the cognizant engineering organization.

SAENORM.COM : Click to view the full PDF of AS1260A

SAE Technical Standards Board 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 © 2014 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:

**SAE values your input. To provide feedback
on this Technical Report, please visit
<http://www.sae.org/technical/standards/AS1260A>**

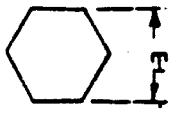
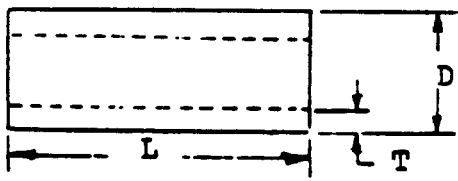
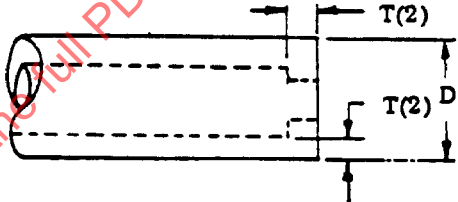
1. SCOPE:

Primarily to provide the aerospace industry with approximate standards for comparing various shaped sections to round bars, in determining the response to hardening characteristics when heat treating low-alloy and martensitic corrosion-resistant steels.

2. TECHNICAL REQUIREMENTS:

Figures 1 and 2 indicate the approximate equivalence of various shapes to equivalent round sections. As an example, a solid square section of 3.00 in. (76.2 mm) between parallel sides has heat treating characteristics of solid round with a diameter of 3.75 in. (95.2 mm).

SAENORM.COM : Click to view the full PDF of as1260a

SOLIDS, LENGTH L			
ROUND	HEXAGON	SQUARE	RECTANGULAR OR PLATE
			
ER (1) = T	ER = 1.1 T	ER = 1.25 T	ER = 1.5 T
When L is less than T, consider section as a plate of L thickness.			
TUBE (ANY SECTION)		RESTRICTED OR CLOSED AT ONE OR BOTH ENDS	
OPEN BOTH ENDS		RESTRICTED OR CLOSED AT ONE OR BOTH ENDS	
			
ER = 2 T		ER = 2.5 T When D is less than 2.5 in. (63.5 mm)	
NOTE: When L is less than D, consider as a plate of T thickness. When L is less than T, consider section as a plate of L thickness.		ER = 3.5 T When D is greater than 2.5 in. (63.5 mm)	

(1) ER = Equivalent Round

(2) Use max thickness for calculation.

FIGURE 1. Equivalent Rounds for Simple Shapes