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Superseding AS1260		
Equivalent Sections of Certain Shapes to Round Bars		

#### RATIONALE

AS1260A has been declared stabilized as mature technology.

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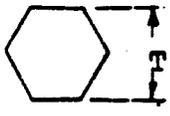
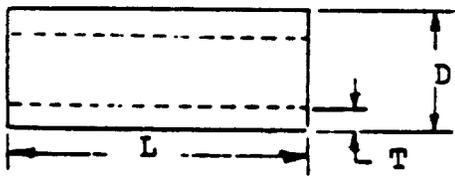
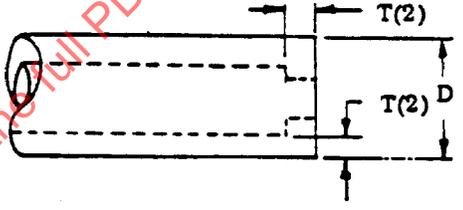
## 1. SCOPE:

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).

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SOLIDS, LENGTH L			
<b>ROUND</b>  $ER (1) = T$	<b>HEXAGON</b>  $ER = 1.1 T$	<b>SQUARE</b>  $ER = 1.25 T$	<b>RECTANGULAR OR PLATE</b>  $ER = 1.5 T$
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	
<b>OPEN BOTH ENDS</b>  $ER = 2 T$ 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.		 $ER = 2.5 T$ When D is less than 2.5 in. (63.5 mm) $ER = 3.5 T$ 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