







Theoretical Mass Calculations - (kg/m)

 Round	$D \times D \times 0,006165$	 Square	$D \times D \times 0,00786$
 Hollow Bar	$(D-t) \times t \times 0,02466$	 Flat	$D \times t \times 0,00786$
 Hexagonal	$D \times D \times 0,0068$	 Octagonal	$D \times D \times 0,00651$

Tolerances for Cold Drawn Bar		
Section	Size – Dia mm	Permitted Variation (mm)
Round	$\geq 6 \leq 18$	+0 – 0.070
	$> 18 \leq 30$	+0 – 0.085
	$> 30 \leq 50$	+0 – 0.100
	$> 50 \leq 80$	+0 – 0.120
	$> 80 \leq 100$	+0 – 0.140
Tolerances for Turned/Peeled Bar		
Section	Size – Dia mm	Permitted Variation (mm)
Round	$\geq 6 \leq 18$	+0 – 0.070
	$> 18 \leq 30$	+0 – 0.085
	$> 30 \leq 50$	+0 – 0.100
	$> 50 \leq 80$	+0 – 0.120
	$> 80 \leq 120$	+0 – 0.140
	$> 120 \leq 160$	+0 – 0.160

A division of Macsteel Service Centre SA (Pty) Ltd: Reg. No 2005/016292/07

MACSTEEL - SPECIAL STEELS CATALOGUE

Lea Road
Dunswart
P O Box 6130, Dunswart 1508
South Africa

Tel: (011) 897-5000
Fax: (011) 918-1125
Email: mac.dun@mactrading.co.za
Web: www.macsteel.co.za



Forged Sizes				
Lengths	5 Metre and Shorter		5 Metre and Longer	
Category	1 metre	< 5 metre	1 metre	< 5 metre
Commercial	5.0 mm	8.0 mm	5.0 mm	15.0 mm
Special	2.5 mm	5.0 mm	2.5 mm	9.0 mm

Straightness Tolerances				
	Bright Bar		Black Bar	
Rounds	< 0.25%C	1 in 1000	-	-
	≥ 0.25%C	1 in 500	-	-
Rolled Sizes	-	-	5 mm over 1 mtr	

Although every care has been taken in the compilation of this brochure, which is for information only, no responsibility can be accepted for inaccuracies.

A division of Macsteel Service Centre SA (Pty) Ltd: Reg. No 2005/016292/07