

# MACSTEEL - SPECIAL STEELS CATALOGUE

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South Africa

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## Hollow Bar

Chemical Composition							
Material		Carbon	Silicon	Manganese	Sulphur	Phosphorus	Vanadium
St52	Min	-	-	-	-	-	-
	Max	0.22	0.55	1.60	0.050	0.050	-
Tl52 Hollow Bar from Timken Desford U.K	Min	0.16	0.	1.20	0.0	-	-
	Max	0.20	0.40	1.50	0.035	0.035	-
20MnV6	Min	0.16	0.10	1.30	0.0	-	0.10
	Max	0.22	0.50	1.70	0.035	0.035	0.20
MECAVAL 147 M from France	Min	-	-	-	0.020	-	0.08
	Max	0.22	0.35	1.60	0.040	0.030	0.15
Tl6V from Timken Desford U.K	Min	0.17	0.25	1.40	-	-	0.08
	Max	0.22	0.35	1.60	0.030	0.030	0.12
TB47HL from Dalmini Italy	Min	-	-	-	-	-	-
	Max	0.18	0.35	1.50	0.030	0.030	0.10

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

A M A C S T E E L G R O U P C O M P A N Y

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## Mechanical Properties

<b>ST52</b> <b>(In as Rolled Condition)</b>		
Ultimate Tensile Strength : 510/610 MPa		
Yield Stress:	<b>Wall Thickness</b>	<b>MPa</b>
	≤16 mm	350
	>16-30 mm	335
	>30 mm	315
Elongation: 21% min		

<b>MECAVAL 147 M</b>		
Ultimate Tensile Strength : 510/610 MPa		
Yield Stress:	<b>Wall Thickness</b>	<b>MPa</b>
	<16 mm	620
	<25 mm	610
	<30 mm	550
	<16 mm	470
	<25 mm	460
	<30 mm	430
Elongation: 18% min		

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**Mechanical Properties**

<b>TI6V</b>		
Ultimate Tensile Strength : 600/750 MPa		
Yield Stress:	<b>Wall Thickness</b>	<b>MPa</b>
	≤16 mm	480
	>16-30 mm	460
	>30 mm	440
Elongation: 18% min		
Impact test: 20 Jules Min at 20° C		

<b>TB47HL</b>		
Ultimate Tensile Strength : 620/650 MPa		
Yield Stress:	<b>Wall Thickness</b>	<b>MPa</b>
	< 25 mm	470
	>25 mm	440
Elongation: 18% min		
Impact test: 27 Jules Min at 0° C		

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