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

MACSTEEL SPECIAL STEELS

070M55 (EN9) Black

(BS970 Pt 1 of 1983, as Rolled/Forged Steel

Typical Uses

Sprockets, cylinders, cams, crankshafts, keys, small gears,machine tools, grinding balls for ball mills, ball race rings requiring moderate wear resistance.

BS970 of 1955 EN9	
W.Stoff (German)	1.1203
AISI (American)	1055
Carbon	0.50 – 0.60
Silicon	0.10 – 0.40
Manganese	0.50 – 0.90
Sulphur	0.050 max
Phosphorus	0.050 max

Properties minima unless stated

Heat Treatment	Tensile Strength Rm MPa	Yield Stress Re MPa	Rp 0.2 MPa	A min on 5.65 √ So	Impact		Hardness HB	Limiting Ruling Section mm
					Izod Ft.lb	KCV J		
N	700	355	-	12	-	-	201/255	63
	600	310	-	13	-	-	170/223	250
R	700/850	415	385	14	-	-	201/255	100
S	775/925	480	450	14	-	-	223/277	63
T	850/1000	570	555	12	-	-	248/302	19

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Size Range

Diameter in mm	Theoretical Mass Kg/m	Diameter in mm	Theoretical Mass Kg/m
20	2.466	140	120.834
25	3.853	150	138.713
26	4.168	160	157.824
28	4.833	165	167.842
30	5.549	170	178.169
32	6.313	180	199.746
35	7.552	190	222.557
40	9.864	203	254.053
45	12.484	215	284.977
50	15.413	230	326.129
55	18.649	240	355.104
60	22.194	250	385.313
65	26.047	260	416.754
70	30.209	280	483.336
75	34.678	290	518.477
80	39.456	300	554.850
85	44.542	320	631.296
90	49.937	330	671.369
95	55.639	350	755.213
103	65.404	380	890.226
108	71.909	405	1011.214
115	81.532	420	1087.506
120	88.776	425	1113.553
130	104.189	450	1248.413
Other sections available on application.			

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N.B.

1. Actual mass will vary from theoretical mass due to manufacturing tolerances.
2. A 6 % allowance should always be made for removal of surface defects during machining.
3. For sizes not listed please contact our sales department - we may be able to assist you.
4. Normalised hardness given for guidance only.
5. Condition T may not always be obtained by bulk heat treatment, but the properties can be achieved by appropriate heat treatment of components.

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