

# MACSTEEL - SPECIAL STEELS CATALOGUE

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## Hardness Value

Symbol	Ton F/Sg In.	MPa	Hardness (Brinell)
P	35/45	540/695	83 – 96 HRB (152/207)
Q	40/50	618/772	88 – 99 HRB (179/229)
R	45/55	695/849	95B – 24 HRC (201/255)
S	50/60	772/926	18 – 27 HRC (223/277)
T	55/65	849/1004	23 – 30 HRC (248/302)
U	60/70	926/1080	27 – 34 HRC (269/331)
V	65/75	1004/1158	29 – 36 HRC (293/352)
W	70/80	1080/1235	31 - 39 HRC (311/375)
X	75/85	1158/1312	35 – 41 HRC (341/401)
Y	80/90	1235/1390	38 – 45 HRC (363/429)
Z	100 MIN	1544 MIN	47 – HRC MIN (444 Min)

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

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## Abbreviations

Mpa	Mega Pascal (1 Mpa = 1 Newton/mm)
N/mm <sup>2</sup>	Newtons per mm squared
HR	Hot Rolled
CD	Cold Drawn
CD & G	Cold Drawn & Ground
HB	Hardness Brinell
HRC	Hardness Rockwell "C" Scale
HRB	Hardness Rockwell "B" Scale
HV	Hardness Vickers
Kg/m	Kilograms per Metre
KCV	Charpy V Notch
J	Joules
Rm	Tensile Strength
Re	Yield Stress
Rp 0.2	Yield at 0.2% offset
LRS	Limiting Ruling Section
N	Normalised
AISA	American Iron and Steel Institute
BS	British Standard

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

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