

CHROME PLATED BAR – 38MnVS6

38MnVS6 Ferritic-Pearlitic Steel, precipitation hardened, with a typical tensile strength range of 800 – 950 Mpa, and a hard chrome plated surface of over 900 HV, offering good strength, with excellent wear resistance, and good corrosion resistance.

TYPICAL APPLICATIONS:

Hydraulic and pneumatic cylinders medium to highly stressed for earth moving, mining, agricultural, waste disposal transport, machine tools, hoists, food processing equipment, compressors, mechanical tools, car jacks, lifting equipment etc.

INDUCTION HARDENED CASE DEPTH:

Up to 18mm Ø	2000 – 3600mm
Over 18mm Ø	4000 – 7500mm

PACKAGING:

Each bar supplied in a cardboard tube.

WELDING:

Remove cardboard tube from the heat affected zone.

Low hydrogen electrodes recommended.
Pre-heat at 200 – 300°C, cool slowly

TYPICAL ANALYSIS: BASE METAL

Carbon	0.34 – 0.41%
Silicon	0.15 – 0.80%
Manganese	1.20 – 1.60%
Vanadium	0.08 – 0.20%
Nitrogen	0.010 – 0.020%
Phosphorus	0.025% max
Sulphur	0.020 – 0.060%

RELATED SPECIFICATIONS: BASE METAL

EN10267-1998	1.1303+P 38MnVS6+P
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TYPICAL HARD CHROME PLATING:

Hardness:	900 -1100 HV
Roughness:	0.10 - 0.30 Ra microns
Thickness:	15 - 30 microns
100-150mm unplated at bar ends.	

TYPICAL DIMENSIONAL TOLERANCE:

Diameter:	to ISO f7
Straightness:	0.2 mm / 1000 mm

TYPICAL MECHANICAL PROPERTIES: BASE METAL – PRECIPITATION HARDENED

Size mm	Yield Strength MPa	Tensile Strength MPa	Elongation %	Hardness HB
18 – 125	520 min	800 – 950	12 min	240 - 280

Welding details and typical mechanical properties for guidance only

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