

## Special Steels - S80

### Round Bar

### Properties

Stock		Chemical Properties	
Dia (in)	Weight/m (Kg)	Element	Chemical Composition %
3/4	2.24	Carbon (C)	0.12 - .020
1	3.92	Silicon (Si)	1.00 max
1 1/4	6.21	Manganese (Mn)	1.00 max
1 1/2	8.94	Phosphor (P) & Sulphur (S)	0.030 (P) 0.025 (S)
2	15.90	Chromium (Cr)	15.0 - 18.0
2 1/4	20.23	Nickel (Ni)	2.0 - 3.0
2 1/2	24.85	Molybdenum (Mo)	0.3 max
2 3/4	30.07	Cobalt (Co)	0.05 max
3	35.75	Copper (Cu)	0.3 max
		Niobium (Nb)	0.05 max
		Tin (Sn)	0.02 max
		Titanium (Ti)	0.05 max
		Vanadium (V)	0.20 max
		Tungsten (W)	0.05 max
		Mechanical Properties	
		Property	Value
		Proof stress	880 - 1080 N/mm <sup>2</sup>
		Tensile strength	690 N/mm <sup>2</sup>
		Elongation	12%
		Hardness Brinell	255 - 321 HB

### Disclaimer

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