

## EN26 (X9940) HIGH TENSILE STEEL

EN26 is a 2.5% Nickel-Chrome-Moly high hardenability, high tensile steel & is generally supplied hardened and tempered (to condition V).

Pre hardened and tempered EN26 can be further surface hardened by flame or induction hardening as well as nitriding. EN26 is used for Heavy duty shafts, Axles, Connecting Rods, Spindles, Motor Shafts, Tool and Die holders etc.

<b>Stocked Sizes</b>	-	Rounds	24 mm – 300 mm Ø
<b>Finishes</b>	-	Hot Rolled, Peeled, (Turned and Polished/Centreless Ground available against request)	

### Related Specifications

Australia	AS 1444 – 1996 X9940
Great Britain	BS970 Part 3 1991 – 826M40 BS970 1955 – EN26

### Chemical Composition

	Min. %	Max %
Carbon	0.36	0.44
Silicon	0.10	0.35
Manganese	0.45	0.70
Nickel	2.30	2.80
Chromium	0.50	0.80
Molybdenum	0.45	0.65
Phosphorous	0	0.04
Sulphur	0	0.04

### Mechanical Properties – Hardened & Tempered EN26 (X9940) to AS1444

Mechanical Property Designation		U	U	V	V	W	W	X
Limited Ruling Section mm*		250	150	250	150	250	150	150
Tensile Strength Mpa	Min	930	930	1000	1000	1080	1080	1150
	Max	1080	1080	1150	1150	1230	1230	1300
0.20% Proof Stress (Yield) Mpa	Min	725	740	820	835	910	925	1005
	Max							
Elongation on %	Min	12	12	12	12	11	11	10
	Max							
Izod Impact J	Min	34	47	34	47	27	40	34
	Max							
Charpy Impact J	Min	28	42	28	42	22	35	28
	Max							
Hardness Brinell HB	Min	269	269	293	293	311	311	340
	Max	331	331	352	352	375	375	401

### Annealing

Heat to 790-840 Deg C. Hold until temperature is uniform throughout the section and allow to cool in furnace.