

Material Grade: **C40**

Associated Standard: **BS EN 10083**

**1. STEELMAKING**

	<u>C</u>	<u>Si</u>	<u>Mn</u>	<u>S*</u>	<u>P*</u>	<u>Cr</u>	<u>Ni</u>	<u>Mo</u>	<u>Cr+Mo+Ni</u>
Min	0.37		0.50						
Max	0.44	0.40	0.80	0.045	0.045	0.40	0.40	0.10	0.63

(\* differs with grade variation C40R/C40E)

**2. TYPICAL MECHANICAL PROPERTIES**

Test type			Tensile and hardness test (at room temperature)					Impact test (KV)	
			Yield (Re)	0.2 % proof	UTS (Rm)	Elong (A)	R of A (Z)	Hardness	Room Temp
Variation	Sample dia	Unit	N/mm <sup>2</sup>	N/mm <sup>2</sup>	N/mm <sup>2</sup>	%	%	HB	J
C40 + N	> 100 ≤ 250mm	Min	260		530	17			
		Max							
C40 + QT	> 40 ≤ 100mm	Min	350		600	19	45		30
		Max			750				