

Material Grade: **EN8**

Associated Standard: **BS970: 1955**

**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>V*</u>
Min	0.35	0.05	0.60						
Max	0.45	0.35	1.00	0.06	0.06	0.30	0.40	0.15	0.05

(\* denotes residual element)

**2. TYPICAL MECHANICAL PROPERTIES**

Test type			Tensile and hardness test (at room temperature)					Impact test (Izod)	
			Yield (Re)	0.2 % proof	UTS (Rm)	Elong (A)	R of A (Z)	Hardness	Room Temp
Variation	Sample dia	Unit	<i>TSI</i>	<i>TSI</i>	<i>TSI</i>	%	%	<i>HB</i>	<i>Ft-lbs</i>
Normalised	≤ 6"	Min	18		35	20		152	
		Max						207	
Normalised and drawn	≤ 6"	Min	18		35	17		152	
		Max						207	
Q+T 'R'	≤ 2½"	Min	28		40	22		179	25
		Max						229	