

Material Grade: **EN24**

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	0.10	0.45			0.90	1.30	0.20	
Max	0.45	0.35	0.70	0.05	0.05	1.40	1.80	0.35	0.05

(* denotes residual element)

2. TYPICAL MECHANICAL PROPERTIES

Test type			Tensile and hardness test (at room temperature)						Impact test (Izod)
			Yield (Re)	Room Temp	UTS (Rm)	Elong (A)	R of A (Z)	Hardness	Room Temp
Variation	Sample dia	<i>Ft-lbs</i>	<i>TSI</i>	<i>TSI</i>	<i>TSI</i>	%	%	<i>HB</i>	<i>Ft-lbs</i>
Annealed			Min						
			Max						277
Q+T 'S'	≤ 6"	Min	38		50	20		223	40
		Max						277	
Q+T 'T'	≤ 6"	Min	44		55	18		248	40
		Max						302	
Q+T 'U'	≤ 4"	Min	48		60	17		269	35
		Max						321	
Q+T 'V'	≤ 2½"	Min	52		65	16		293	35
		Max						341	
Q+T 'W'	≤ 1.1/8"	Min	58		70	15		311	30
		Max						375	