

Material Grade: **EN26**

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	0.36	0.10	0.50			0.50	2.30	0.40	
Max	0.44	0.35	0.70	0.05	0.05	0.80	2.80	0.70	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 'U'	≤ 6"	Min	48		60	17		269	35
		Max						321	
Q+T 'V'	≤ 4"	Min	52		65	14		293	35
		Max						341	
Q+T 'W'	≤ 4"	Min	58		70	13		311	30
		Max						375	
Q+T 'X'	≤ 4"	Min	63		75	12		341	25
		Max						388	
Q+T 'Y'	≤ 4"	Min	68		80	12		363	25
		Max						415	
Q+T 'Z'	≤ 4"	Min	85		100	10		444	10
		Max							