

Material Grade: **32CrMo12**

Associated Standard: **BS EN 10250**

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>
Min	0.28		0.40			2.80		0.30
Max	0.35	0.40	0.70	0.035	0.035	3.30	0.60	0.50

2. TYPICAL MECHANICAL PROPERTIES

Test type			<u>Tensile and hardness test (at room temperature)</u>					<u>Impact test (KV)</u>	
			<u>Yield (Re)</u>	<u>0.2 % proof</u>	<u>UTS (Rm)</u>	<u>Elong (A)</u>	<u>R of A (Z)</u>	<u>Hardness</u>	<u>Room Temp</u>
<u>Variation</u>	<u>Sample dia</u>	<u>Unit</u>	<i>N/mm2</i>	<i>N/mm2</i>	<i>N/mm2</i>	<i>%</i>	<i>%</i>	<i>HB</i>	<i>J</i>
32CrMo12 + QT	≤ 160mm	Min	680		900	12	35		35
		Max							
32CrMo12 + QT	> 160 ≤ 330mm	Min	630		850	13			35
		Max							