

Material Grade: **25CrMo4**

Associated Standard: **BS EN 10083**
BS EN 10250

1. STEELMAKING

	<u>C</u>	<u>Si</u>	<u>Mn</u>	<u>S*</u>	<u>P</u>	<u>Cr</u>	<u>Mo</u>
Min	0.22		0.60			0.90	0.15
Max	0.29	0.40	0.90	0.035	0.025	1.20	0.30

(* grade variation 25CrMoS4 has S range of 0.020-0.040%)

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>
25CrMo4 + A		Min							
		Max					212		
25CrMo4 + QT	> 40 ≤ 100mm	Min	450		700	15	60		50
		Max			850				
25CrMo4 + QT	> 160 ≤ 330mm	Min	380		600	18			38
		Max							