

Material Grade: **11SMn30**

Associated Standard: **BS EN 10087**

**1. STEELMAKING**

|     | <u>C</u> | <u>Si</u> | <u>Mn</u> | <u>S</u> | <u>P</u> |
|-----|----------|-----------|-----------|----------|----------|
| Min |          |           | 0.90      | 0.27     |          |
| Max | 0.14     | 0.05      | 1.30      | 0.33     | 0.11     |

**2. TYPICAL MECHANICAL PROPERTIES**

| Test type | <u>Tensile and hardness test (at room temperature)</u> |                   |                   |           |            |          |
|-----------|--|-------------------|-------------------|-----------|------------|----------|
|           | Yield (Re)   | 0.2 % proof       | UTS (Rm)          | Elong (A) | R of A (Z) | Hardness |
| Unit      | N/mm <sup>2</sup>                                      | N/mm <sup>2</sup> | N/mm <sup>2</sup> | %         | %          | HB       |
| Untreated | Min  |                   | 380               |           |            |          |
|           | Max  |                   | 570               |           |            |          |