

**BS EN 10253-2:2007 Butt-welding pipe fittings — Part 2: Non alloy and ferritic alloy steels with specific inspection requirements**

**Steel grade: 10CrMo9-10**

**Heat treatment condition:** NT (Normalized and tempered)

it may be necessary in the case of wall thickness T above 25 mm or  $T/D > 0,15$  to apply quenching and tempering in order to achieve the intended structure and material properties. The decision shall be left to the discretion of the manufacturer but shall be stated to the customer at the time of enquiry and order. Steel tubes treated in such a way shall be designated by the steel name supplemented by the symbol “+QT”.

**Chemical composition**

C: 0.08-0.14

Si:  $\leq 0.50$

Mn: 0.30-0.70

P:  $\leq 0.025$

S:  $\leq 0.020$

Al tot:  $\leq 0.040$

Cr: 2.0-2.5

Cu:  $\leq 0.30$

Mo: 0.90-1.10

Ni:  $\leq 0.30$

**Mechanical properties**

Yield strength min. N/mm<sup>2</sup>

T $\leq$ 40	40 < T $\leq$ 60
280	270

Tensile strength Rm N/mm<sup>2</sup>: 480-630

Elongation A min. %

Longitudinal	Transverse
22	20

**Impact properties**

Minimum average absorbed energy KV, in J at a temperature of 20 ° C

Longitudinal	Transverse
40	27

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