

Material Grade: **1.0401**

Associated Standard: **Werkstoff**

**1. STEELMAKING**

	<u>C</u>	<u>Si</u>	<u>Mn</u>	<u>S</u>	<u>P</u>
<b>Min</b>	<b>0.12</b>		<b>0.30</b>		
<b>Max</b>	<b>0.18</b>	<b>0.40</b>	<b>0.60</b>	<b>0.045</b>	<b>0.045</b>

**2. TYPICAL MECHANICAL PROPERTIES**

Test type		Tensile and hardness test (at room temperature)					Impact test (KV)	
		Yield (Re)	0.2 % proof	UTS (Rm)	Elong (A)	R of A (Z)	Hardness	Room Temp
<b>Variation</b>	<b>Unit</b>	<i>N/mm2</i>	<i>N/mm2</i>	<i>N/mm2</i>	<i>%</i>	<i>%</i>	<i>HB</i>	<i>J</i>
<b>Annealed</b>	<b>Min</b>						<b>103</b>	
	<b>Max</b>						<b>140</b>	
<b>Case hardened on 30mmØ sample</b>	<b>Min</b>	<b>355</b>		<b>590</b>	<b>14</b>	<b>45</b>		<b>48</b>
	<b>Max</b>			<b>780</b>				