

Steel Grade: C35E/Ck35   Material No: 1.1181								
CHEMICAL COMPOSITION								
C(%)	Si(%)	Mn(%)	P(%)	S(%)	Cr(%)	Mo(%)	Ni(%)	Other(%)
0.32~0.39	≤0.40	0.50~0.80	0.035	0.035	≤0.40	≤0.10	≤0.40	Cr+Mo+Ni < 0.63%
HARDNESS AND HEAT TREATMENT								
Hot Working/°C	Annealing/°C	Normalizing/°C	Quench/°C			Temper/°C	Annealing hardness HBS ≤	
1100~850	650~700	860~890	840~870	Water	850~880	Oil	540~680	183
MECHANICAL PROPERTIES								
Size/mm	Tensile Strength   $\sigma_b$ /Mpa	Yield Strength   $\sigma_s \geq$ /Mpa	Extensibility   $\delta_5$ (%) $\geq$	Reduction of Area   $\psi$ (%) $\geq$		Ballistic   akv/J <sup>③</sup>		
≤16	630~780	430	17	40		40		
17~40	600~750	370	19	45		40		

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