

Steel Grade: C40E/Ck40   Material No: 1.1186								
CHEMICAL COMPOSITION								
C(%)	Si(%)	Mn(%)	P(%)	S(%)	Cr(%)	Mo(%)	Ni(%)	Other(%)
0.37~0.44	≤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	850~880	830~860	Water	840~870	Oil	540~680	197
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	650~800	460	16	35	35			
17~40	630~780	400	18	40	35			

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