

Steel Grade: C35   Material No: 1.0501									
CHEMICAL COMPOSITION									
C(%)	Si(%)	Mn(%)	P(%)	S(%)	Cr(%)	Mo(%)	Ni(%)	Other(%)	
0.32~0.39	≤0.40	0.50~0.80	0.045	0.045	≤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/J③				
≤16	630~780	430	17	35	—				
17~40	600~750	370	19	40	—				

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