

Steel Grade: C50E/Ck50 Material No: 1.1206								
CHEMICAL COMPOSITION								
C(%)	Si(%)	Mn(%)	P(%)	S(%)	Cr(%)	Mo(%)	Ni(%)	Other(%)
0.47~0.55	≤0.40	0.60~0.90	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	835~865	810~840Water 820~850Oil			540~680	217	
MECHANICAL PROPERTIES								
Size/mm	Tensile Strength σ_b /Mpa	Yield Strength $\sigma_s \geq$ /Mpa	Extensibility δ_5 (%) ≥	Reduction of Area ψ (%) ≥	Ballistic akv/J③			
≤16	750~900	520	13	30	—			
17~40	700~850	460	15	35	—			

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