

Steel Grade: C30E/Ck30 Material No: 1.1178								
CHEMICAL COMPOSITION								
C(%)	Si(%)	Mn(%)	P(%)	S(%)	Cr(%)	Mo(%)	Ni(%)	Other(%)
0.27~0.34	≤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	870~900	850~880 Water	540~680	170			
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	600~850	400	18	40	45			
17~40	550~700	350	20	45	45			

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