

Steel Grade: C22E/Ck22 Material No: 1.1151								
CHEMICAL COMPOSITION								
C(%)	Si(%)	Mn(%)	P(%)	S(%)	Cr(%)	Mo(%)	Ni(%)	Other(%)
0.17~0.24	≤0.40	0.40~0.70	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 ≤			
1100~900	650~700	880~910	860~890 Water	540~680	156			
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	550~700	350	20	50	55			
17~40	500~650	300	22	50	55			

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