

Steel Grade: 21Mn6 Material No: 1.0485										
CHEMICAL COMPOSITION										
C(%) ≤	Si(%) ≤	Mn(%) ≤	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Ni(%)	Other(%)		
≤0.23	≤0.60	1.15~1.60	0.045	0.045	—	—	—	+Al		
HARDNESS AND HEAT TREATMENT MECHANICAL PROPERTIES										
Hot Working °C	Annealing/Normalizing °C	Quench °C	Temper °C	Brinell Hardness HBS	Tensile Strength $\sigma_b \geq$ Mpa	Normal Temp Yield Strength $\sigma_s \geq$ Mpa	Extensibility $\delta_5 \geq$ (%)	Ballistic $akv \geq$ J⑥		
1100~850	880~940③/530~580④	—	—	—	510~610	335	19	31		
Yield Strength $\sigma_{0.2} \geq$ /Mpa						Creep Limit/Mpa 1000h				
200°C	300°C	350°C	400°C	450°C	500°C	450°C	500°C	550°C	600°C	10000h 450°C
294	245	226	206	—	—	—	—	—	—	—
Creep Limit/Mpa 10000h			Creep Rupture/Mpa 1000h				Creep Rupture/Mpa 10000h			
500°C	550°C	600°C	450°C	500°C	550°C	600°C	450°C	500°C	550°C	600°C
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