

Steel Grade: 50MnSi4 Material No: 1.5131								
CHEMICAL COMPOSITION								
C(%)	Si(%)	Mn(%)	P(%)	S(%)	Cr(%)	Mo(%)	Ni(%)	Other(%)
0.45~0.53	0.70~1.10	0.90~1.20	0.035	0.035	—	—	—	—
HARDNESS AND HEAT TREATMENT								
Hot Working/°C	Annealing/°C	Normalizing/°C	Quench/°C	Temper/°C	Annealing hardness HBS ≤			
1050~850	650~720	850~880	820~850Oil	550~660	217			
MECHANICAL PROPERTIES								
Size/mm	Tensile Strength σ_b /Mpa	Yield Strength $\sigma_s \geq$ /Mpa	Extensibility δ_5 (%) \geq	Reduction of Area ψ (%) \geq	Ballistic akv/J ^③			
17~40	830~980	620	11	40	34			
41~100	740~880	520	13	45	41			

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