

Steel Grade: 34Cr4 Material No: 1.7033									
CHEMICAL COMPOSITION									
C(%)	Si(%)	Mn(%)	P(%)	S(%)	Cr(%)	Mo(%)	Ni(%)	Other(%)	
0.30~0.37	≤0.40	0.60~0.90	0.035	0.035	0.90~1.20	—	—	—	
HARDNESS AND HEAT TREATMENT									
Hot Working/°C	Annealing/°C	Normalizing/°C	Quench/°C		Temper/°C	Annealing hardness HBS ≤			
1050~850	680~720	850~890	830~860	Water 840~870	Oil	540~680	223		
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				
≤16	900~1100	700	11	35	40				
17~40	800~950	590	14	40	45				

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