

Steel Grade: Ck35 | Material No: 1.0081

CHEMICAL COMPOSITION

C(%) ≤	Si(%) ≤	Mn(%) ≤	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Ni(%)	Other(%)
0.32~0.39	≤0.40	0.50~0.80	0.035	0.035	≤0.40	≤0.10	≤0.40	—②

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 $ak_v \geq$ J⑥		
1100~850	650~700	870~900 Oil	650~710	145~175	490~590	275	22	55		
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
220	186	167	147	—	—	113	54	—	—	78
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
35	—	—	49	22	—	—	98	53	—	—

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