

Steel Grade: 13CrMo4-5(13CrMo4-4) | Material No: 1.7335

CHEMICAL COMPOSITION

C(%) ≤	Si(%) ≤	Mn(%) ≤	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Ni(%)	Other(%)
0.08~0.18	≤0.35	0.40~1.00	0.03	0.025	0.70~1.15	0.40~0.60	—	Cu ≤0.30; +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 $ak_v \geq$ J⑥		
1100~850	680~720	890~950 Oil	650~720	130~175	440~590	275	22	48		
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
275	235	216	206	206	177	—	235	127	—	—
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
186	78	—	—	40	—	—	392	235	118	49

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