

Steel Grade: 40CrMoV-7 | Material No: 1.7711

CHEMICAL COMPOSITION

C(%) ≤	Si(%) ≤	Mn(%) ≤	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Ni(%)	Other(%)
0.36~0.44	0.15~0.35	0.35~0.85	0.03	0.035	0.90~1.20	0.60~0.75	—	V 0.25~0.35

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 $ \text{akv} \geq$ J⑥		
1100~850	650~730	880~930 Oil	670~730	250~295	850~1000	700	14	41		
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
635	598	578	540	540	460	—	—	—	—	361
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
242	138	—	—	175	74	—	405	271	170	—

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