

Steel Grade: 11CrMo9-10 | Material No: 1.7383

**CHEMICAL COMPOSITION**

C(%) ≤	Si(%) ≤	Mn(%) ≤	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Ni(%)	Other(%)
0.08~0.15	≤0.50	0.40~0.80	0.03	0.025	2.00~2.50	0.90~1.10	—	Cu ≤0.30

**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	920~980 Oil	650~750	—	520~670	310	18	40		
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
—	235	225	215	205	295	—	—	—	—	—
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
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