

Steel Grade: 22Mo4 | Material No: 1.5419

CHEMICAL COMPOSITION

C(%) ≤	Si(%) ≤	Mn(%) ≤	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Ni(%)	Other(%)
0.18~0.25	0.20~0.40	0.40~0.70	0.03	0.03	≤0.30	0.30~0.40	—	—

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	650~700	880~920 Oil	600~660	145~175	490~590	295	20	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
—	275	255	235	206	186	—	—	—	—	226
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
147	74	—	167	98	49	—	314	167	78	—

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