

Jiangyou Hacer Technology Co., Ltd.

Steel Grade: X20CrMoV12-1 | Material No: 1.4922

CHEMICAL COMPOSITION

C(%) ≤	Si(%) ≤	Mn(%) ≤	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Ni(%)	Other(%)
0.17~0.23	≤0.50	≤1.00	0.03	0.03	10.0~12.5	0.80~1.20	0.30~0.80	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 $ak_v \geq$ J⑥		
—	—	—	—	—	—	—	—	—		
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
461	392	373	353	314	265	—	314	206	108	—
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
255	157	59	—	206	118	39	—	343	216	118

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