

Steel Grade: 24CrMo5 | Material No: 1.7258

CHEMICAL COMPOSITION

C(%) ≤	Si(%) ≤	Mn(%) ≤	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Ni(%)	Other(%)
0.20~0.28	≤0.40	0.50~0.80	0.035	0.035	0.90~1.20	0.20~0.35	≤0.60	—

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	650~740	900~950 Oil	650~700	175~220	590~740	440	18	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
412	363	333	304	275	235	294	196	93	—	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	64	—	172	98	25	—	311	177	78	—

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