

Steel Grade: P235GH/H I | Material No: 1.0345

CHEMICAL COMPOSITION

C(%) ≤	Si(%) ≤	Mn(%) ≤	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Ni(%)	Other(%)
≤0.16	≤0.35	0.4~1.20	0.03	0.025	≤0.30	≤0.08	≤0.30	Cu ≤ 0.30①; Al ≤ 0.020; Nb ≤ 0.01; Ti ≤ 0.03; V ≤ 0.02

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
170	130	120	110	95	—	—	—	—	—	80
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
—	—	—	49	—	—	—	113	—	—	—

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