

Steel Grade: P355GH/19Mn6 | Material No: 1.0473

CHEMICAL COMPOSITION

C(%) ≤	Si(%) ≤	Mn(%) ≤	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Ni(%)	Other(%)
0.10~0.22	≤0.60	1.00~1.70	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		
1100~850	890~950③/520~580④	—	—	140~185	510~560	335	21	47		
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
255	215	200	180	135	—	—	—	—	—	93
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	—	—	59	29	—	—	143	74	—	—

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