

Steel Grade: 15NiCuMoNb5 | Material No: 1.6368

CHEMICAL COMPOSITION

C(%) ≤	Si(%) ≤	Mn(%) ≤	P(%) ≤	S(%) ≤	Cr(%)	Mo(%)	Ni(%)	Other(%)
≤0.17	0.25~0.50	0.80~1.20	0.03	0.25	≤0.30	0.25~0.50	1.00~1.80	Cu 0.50~0.80; Nb0.015~0.045; Al ≥ 0.015; N ≤ 0.020

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	880~940③	—	550~690	—	590~760	410	16	41⑤		
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
363	343	333	314	284	—	—	—	—	—	265
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
108	—	—	206	48	—	—	304	147	—	—

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