

Steel Grade: X12Ni5/12Ni19 | Material No: 1.5680
CHEMICAL COMPOSITION

C(%)≤	Si(%)≤	Mn(%)≤	P(%)≤	S(%)≤	Cr(%)	Ni(%)	V(%)	Other(%)
≤0.15	≤0.35	0.30 ~ 0.80	0.02	0.01	—	4.75 ~ 5.25	≤0.05	—②

HEAT TREATMENT

Hot Working°C	Normalizing/°C	Quench/°C	Temper°C
1100 ~ 850	800 ~ 850	800 ~ 850 Water or Oil	580 ~ 660

MECHANICAL PROPERTIES IN NORMAL OR LOW TEMP

Condition	Tensile Strength σ _b /Mpa	Yield Strength σ _s ≥/Mpa	Extensibility δ ₅ (%)≥	Reduction of Area ψ(%)≥	Ballistic α _k (DVM)/J
-120°C	710	590	17	—	62
-170°C	800	705	16	—	31
-20°C	610	470	18	—	89
-50°C	630	490	18	—	82

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