

Steel Grade: X2CrNiN18-10 | Material No: 1.4311
CHEMICAL COMPOSITION

C(%)≤	Si(%)≤	Mn(%)≤	P(%)≤	S(%)≤	Cr(%)	Ni(%)	V(%)	Other(%)
≤0.03	≤1.00	≤2.00	0.045	0.03	17.0 ~ 19.5	8.50 ~ 11.5		N≤0.12 ~ 0.22

HEAT TREATMENT

Hot Working°C	Normalizing/°C	Quench/°C	Temper°C
1150 ~ 750	—	1050 ~ 1100 Water	—

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
-195°C	1080	—	30	—	82
-80°C	780	—	35	—	96
Room Temperature	540 ~ 740	—	40	50	100
0	0	0	0	0	0

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