

Steel Grade: ESTE380(S380NL1) Material No: 1.8911														
CHEMICAL COMPOSITION														
C(%) ≤	Si (%)	Mn (%)≤	P (%)≤	S (%)≤	N (%)≤	Al (%)	Cr (%)≤	Cu (%)≤	Mo (%)≤	Ni (%)≤	Nb (%)≤	Ti (%)≤	V (%)	Nb+Ti +V(%)⑥
0.2	0.10~0.60	1.00~1.70	0.025	0.015	0.02	0.02	0.3	0.20②	0.08②	1	0.05	—⑤	0.2	0.22
MECHANICAL PROPERTIES														
Tensile Strength σ_b /Mpa					Normal Temp Yield Strength σ /Mpa									
≤70mm	70-85mm	85-100mm	100-125mm	125-150mm	≤16mm	16-35mm	35-50mm	50-60mm	60-70mm	70-85mm	85-100mm	100-125mm	125-150mm	
500~650	490~640	480~630	470~620	460~610	380	375	365	355	345	335	325	315	305	
Extensibility $\delta_5 \geq$ (%)	Flexural Center Dia Cold-bend Test		Sample Direction L/T⑧⑨	Ballistic $ak_v \geq$ (J/cm ²)										
	180°C/L	180°C/T ⑥⑦		+20°C	+10°C	+0°C	-10°C	-20°C	-30°C	-40°C	-50°C	-60°C		
20	2.5a	3.5a	L/T	100/80	95/75	90/70	80/60	65/45	50/35	40/30	30/27	25/20		

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