

Steel Grade: P275NH/WStE285 Material No: 1.0487														
CHEMICAL COMPOSITION														
C(%) ≤	Si (%)	Mn (%)≤	P (%)≤	S (%)≤	N (%)≤	Al (%)	Cr (%)≤	Cu (%)≤	Mo (%)≤	Ni (%)≤	Nb (%)≤	Ti (%)≤	V (%)	Nb+Ti +V(%)⑥
0.18	≤0.40	0.50~1.40	0.03	0.025	0.02	0.02	0.30②	0.30②	0.08②	0.5	0.05	0.03	0.05	0.05
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	
390~510	380~500	370~490	360~480	350~470	285	285	275	265	265	255	245	235	225	
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		
24	1.5a	2a	L/T	55/31	51/31	47/31	43/24	39/21	—/—	—/—	—/—	—/—	—/—	—/—
Steel Size/mm	High Temp Yield Strength $\sigma_{0.2} \geq$ Mpa													
	100°C	150°C	200°C	250°C	300°C	350°C	400°C							
	≤35	255	235	—	—	—	—	—	—	—	—	—	—	—
	100~125	216	196	177	157	127	108	88						
125~150	206	186	167	147	118	98	78							

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