

Steel Grade: WStE315(P315NH)   Material No: 1.0506														
CHEMICAL COMPOSITION														
C(%) ≤	Si (%)	Mn (%)≤	P (%)≤	S (%)≤	N (%)≤	Al (%)	Cr (%)≤	Cu (%)≤	Mo (%)≤	Ni (%)≤	Nb (%)≤	Ti (%)≤	V (%)	Nb+Ti +V(%)⑥
0.18	≤0.45	0.70~1.50	0.035	0.03	0.02	0.02	0.30②	0.30②	0.08②	0.3	0.03	—	—	0.05
MECHANICAL PROPERTIES														
Tensile Strength   $\sigma_b$ /Mpa					Normal Temp Yield Strength   $\sigma$ /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	
440~560	430~550	420~540	410~530	400~520	315	315	305	295	295	275	265	265	255	
Extensibility   $\delta_5 \geq$ (%)	Flexural Center Dia Cold-bend Test		Sample Direction L/T⑧⑨	Ballistic   $ak_v \geq$ (J/cm <sup>2</sup> )										
	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		
23	2a	2.5a	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	275	255	—	—	—	—	—						
	100~125	235	216	196	177	147	127	108						
125~150	226	206	186	167	137	118	98							

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