

Steel Grade: WStE500(P500NH) Material No: 1.8937														
CHEMICAL COMPOSITION														
C(%) ≤	Si (%)	Mn (%)≤	P (%)≤	S (%)≤	N (%)≤	Al (%)	Cr (%)≤	Cu (%)≤	Mo (%)≤	Ni (%)≤	Nb (%)≤	Ti (%)≤	V (%)	Nb+Ti +V(%)⑥
0.21	0.10~0.60	1.00~1.70	0.035	0.03	0.02	0.02	0.3	0.7	0.1	1	0.05	—⑤	0.22	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	
610~780	600~770	590~760	580~750	570~740	500	480	470	460	450	440	430	420	410	
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		
16	3a	4a	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	422	392	—	—	—	—	—	—	—	—	—	—	—
	100~125	382	353	333	304	284	255	226						
125~150	373	343	324	294	275	245	216							

From: Jiangyou Hacer Technology Co., Limited
 Factory Add: Jiangzhang Road, Jiangyou City, SC, China
 Website: <https://www.jhacer.com/>
 Email: sales@jhacer.com
 Phone: +86-(0)816-3260757
 Call: +86-13658128897(WhatsApp)
 Fax: +86-(0)816-3260757