

HENGYANG VALIN
STEEL TUBE CO.,LTD

MILL TEST CERTIFICATE

Add: 10 Dalixincun, Hengyang City, Hunan, P.R.China P.C.:421001

Tel and Fax: +86 734 8873739

E-mail: hsiiec@hysteeltube.com

(ACCORDING TO EN10204-2004 3.1)

(ACCORDING TO EN10204-2.1)

E-mail: nslec@nysteentube.com

CUSTOMER				CERTIFICATE NO.	C201857609-1				
CONTRACT-ITEM NO.	2111003659- 02	P.O.NO.	45408	DATE:	2018-12-25	PAGE:	1/3		
PRODUCT	SEAMLESS STEEL LINE PIPE			DELIVERY CONDITION	N				
SPECIFICATION	SEE SPECIFICATION NOTE		HEAT TREATMENT	≥900℃,COOLING IN STILL AIR					
GRADE	BN			DIMENSIONS	4 Sch 80/XS DRL				
TOTAL BUNDLES:	78	TOTAL PIECES:	768	TOTAL LENGTH:	9039.210	m	TOTAL WEIGHT :	201.747	mt

NO.	BATCH No.	HEAT No.	BUNDLES	PIECES	LENGTH	WEIGHT	TENSILE TEST ASTM A370					
					m	mt	SAMPLE TYPE/ ORIENTATION / SIZE(mm)/GAUGE LENGTH(mm):S/L25/50					
						W1	TS(MPa)	YS(MPa)	RT0.5	EL(%)	R.A. (%)	YS/TS
1	6HZ023181	18208411	19	190	2237.970	49.946	485	365		42.0		0.75
2	6HZ023182	18208411	20	198	2332.440	52.054	483	343		42.5		0.71
3	6HZ023191	18106619	17	167	1966.850	43.895	479	351		43.0		0.73
4	6HZ023192	18106619	20	197	2314.750	51.673	501	380		38.0		0.76
5	6HZ104181	18208415	2	16	187.200	4.179	471	334		42.5		0.71

NO.	IMPACT TEST								NON METALLIC INCLUSION	GRAIN SIZE	HARDNESS TEST		
	NOTCH TYPE/ORIENTATION/TEMPERATURE(°C)/SIZE (mm) :										NACE MR0175/ISO 15156		
	V8/L/0°C/10*5*55										HRC≤22		
	AK1 (J)	Av.(J)	% SHEAR AREA	LE	AK2 (J)	Av.(J)	% SHEAR AREA	LE			HRB		
1	61/64/68	64			/					8	78.3////////		
2	59/57/62/	59			/					8	78.3////////		
3	61/65/67	64			/					8	77.6////////		
4	73/77/74	75			/					8	78.4////////		
5	68/67/72	69			/					9	74.8////////		

NOTES:

W1--THEORETICAL WEIGHT

W2--ACTUAL WEIGHT

NR--NORMALIZING ROLLED

AK1--ABSORB ENERGY FOR THE FIRST SET

SAMPLE ORIENTATION : L--LONGITUDINAL T--TRANSVERSE

SAMPLE TYPE: S---STRIP C-- CLUBBED F--FULL-SECTION

Q&T--QUENCHING AND TEMPERING

AK2--ABSORB ENERGY FOR THE SECOND SET

N--NORMALIZING

A--ANNEALING

Av.--AVERAGE

LE--SIDE EXPANSION

HE--HOT EXPANDED

HR--HOT ROLLED

N&T--NORMALIZING AND TEMPERING



ACCEPTABLE

R3=Mn/C

lb+W+Ti

WUYANG VALVE STEEL TUBE CO., LTD.
衡阳华菱钢管有限公司
D2
HUNAN CHINA

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		REMARK : 1.ORIGIN: MADE IN CHINA; 2.ALL ELEMENTS TO BE LISTED; 3. STEEL IS FULLY KILLED & PRODUCED BY ELECTRIC ARC FURNACE TO FINE GRAIN PRACTICE;4.Normalized at above 900℃ and followed by cooling in still air
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SPECIFICATION NOTE	API 5L 45th PSL2/ASME B36.10/ASTM A106/A53/NACE MR 0175/ISO15156 ONLY FOR HARDNESS	
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We hereby certify that material herein described has been manufactured in accordance with the standards and specifications required in your order and satisfies the corresponding requirements.	Quality Manager: 
This certificate is issued by a computerized system and it is valid with electronic signature. In case the owner of the certificate would release a copy of it ,he must attest its conformity to the original one taking upon himself the responsibility for any unlawful or not allowed use.	
Any alteration and/or falsification will be subject to the law.	
If you need to assure the authenticity of this certificate ,please do not hesitate to contact Hengyang Valin Steel Tube CO.,LTD, E-mail: hsiicc@hysteeltube.com	
CUSTOMER THIRD PARTY	

Certificate-maker: 叶子义

Certificate-maker:

叶子文