

HENGYANG VALIN
STEEL TUBE CO.,LTD

MILL TEST CERTIFICATE

(ACCORDING TO EN10204-2004 3.1)

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

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(ACCORDING TO EN10217-2:2004-5.1)

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CUSTOMER				CERTIFICATE NO.	C201857608-1				
CONTRACT-ITEM NO.	2111003659- 01	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 Sch40 DRL				
TOTAL BUNDLES:	102	TOTAL PIECES:	1024	TOTAL LENGTH:	11920.900	m	TOTAL WEIGHT :	191.555	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/L\25\50					
						W1	TS(MPa)	YS(MPa)	RT0.5	EL(%)	R.A. (%)	YS/TS
1	9HZ091110	18208573	19	192	2227.200	35.789	477	349	42.0			0.73
2	9HZ091120	18208568	18	186	2159.300	34.697	485	352	43.0			0.73
3	9HZ091130	18106759	22	216	2514.700	40.409	477	350	42.5			0.73
4	9HZ091140	18208569	22	216	2526.800	40.602	484	360	41.0			0.74
5	9HZ091150	18106760	21	214	2492.900	40.058	477	356	42.0			0.75

NO.	IMPACT TEST								NON METALIC 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	56/62/68	64			/					9	75.8////////		
2	50/56/59	55			/					9	75.2////////		
3	51/57/54	54			/					9	75.4////////		
4	65/63/59	62			/					9	75.0////////		
5	58/61/63	60			/					9	75.3////////		

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



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TOTAL BUNDLES:	102	TOTAL PIECES:	1024	TOTAL LENGTH:	11920.900 m	TOTAL WEIGHT : 191.555 mt
		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				

SPECIFICATION NOTE	API 5L 45th PSL2/ASME B36.10/ASTM A106/A53/NACE MR 0175/ISO15156 ONLY FOR HARDNESS	
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. 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: hsiec@hysteeltube.com		Quality Manager: 
CUSTOMER THIRD PARTY		Certificate-maker: 叶子义