

1410428

3" SCH40 SMLS STEEL PIPE

P.O. 133949

HENGYANG VALIN
STEEL TUBE CO.,LTD

MILL TEST CERTIFICATE

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

Tel and Fax: +86 734 8873739

E-mail: hstcc@hysteeltube.com

(ACCORDING TO EN10204 3.1B)

CUSTOMER	BHD TUBULAR LIMITED		CERTIFICATE NO.	C201407411-1	
CONTRACT-ITEM NO.	2111001072-06	P.O.NO.	112633	DATE:	2014-3-7
PRODUCT	SEAMLESS STEEL LINE PIPE		DELIVERY CONDITION	HR	
SPECIFICATION	SEE SPECIFICATION NOTE		HEAT TREATMENT		
GRADE	B,B/X42,Grade 290		DIMENSIONS	3" x SCH40 x 40FT	
TOTAL BUNDLES:	24	TOTAL PIECES:	238	TOTAL LENGTH:	9526.218 ft
				TOTAL WEIGHT:	32.773 mt

NO.	LOT No.	HEAT No.	BUNDLES	PIECES	LENGTH ft	WEIGHT mt	TENSILE TEST ASTM A370					
							SAMPLE TYPE/ ORIENTATION / SIZE(mm)/GAUGE LENGTH(num):SL19/50					
							TS(Psi)	YS(Psi)	Rt0.5	EL(%)	R.A. (%)	YS/TS
1	941302713	1410428	17	166	6644.337	22.858	75400	53650		34.0		0.71
2	941302714	1421480V	7	72	2881.881	9.915	71920	50315		32.0		0.70

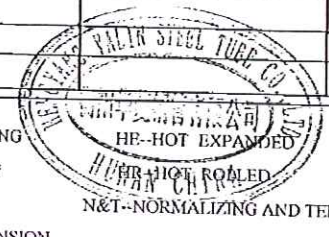
NO.	IMPACT TEST								NON METALIC INCLUSION	GRAIN SIZE	HARDNESS TEST NACE MR0175/ISO 15156/NACE MR0103 HRC
	NOTCH TYPE/ORIENTATION/TEMPERATURE(C)/SIZE (mm): //										
	AK1 (J)	Av.(J)	% SHEAR AREA	LE	AK2 (J)	Av.(J)	% SHEAR AREA	LE			
1	/				/					/1.0////////	
2	/				/					/1.0////////	

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



ORIGINAL

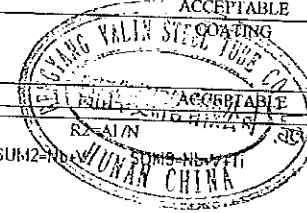
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NO	HEAT No. LOT No.	Type	CHEMICAL COMPOSITION (%)																								R1	R2	R3								
			C	Si	Mn	Cr	Mo	W	Cu	Ni	P	Al	Sn	As	Pb	Sb	No	Ti	Zr	N	Bi	S	V	B	Ca	CE				SUM1	SUM2	SUM3					
			*100												*10000						*100			*1000													
1	1410428	H	14	34	125	60	19		86	23	15																										
	941302713	P	14	33	126	63	18		88	26	14											2	14					35	38	3		37	191.8	5.8	19.8		
	941302713	P	15	32	125	61	18		85	24	14											2	14				40	36	3		37	198.6	5.6	19.6			
2	1421480V	H	14	31	128	63	14		88	28	10											1	14				39	33	2		38	191.3	4.3	18.3			
	941302714	P	14	32	125	61	16		85	23	14												1	12				77	33	3		38	196.3	4.3	16.3		
	941302714	P	14	31	123	60	18		84	23	13												1	14				54	34	2		37	188.4	4.4	18.4		
		H																					1	13				39	34	2		37	188.4	4.4	17.4		
		P																																			
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ORIGINAL



NOTES: H--HEAT ANALYSIS P--PRODUCT ANALYSIS CE--EQUIVALENT CARBON R--RATIO R1=Ca /S
CEIW=C+Mn/5+(Cr+Mo)/5+(Cu+Ni)/15 CEPCM=C+Si/30+(Mn+Cr+Cu)/20+Ni/60+Mo/15+V/10+S
BT-ASTM E309 UT-ASTM E213 EMJ-ASTM E570 MPI-ASTM E709 SUM1=C+Cu+Mo+Ni+V SUM2=Nb+Ti
L4/L3/L2--ACCEPT LEVEL L4/L3/L2,NOTCH DEPTH IS 12.5%/10%/5% THE SPECIFIED WALL THICKNESS.

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GRADE	B,B/X42,Grade 290		DIMENSIONS	3' x SCH40 x 40FT	
TOTAL BUNDLES:	24	TOTAL PIECES:	238	TOTAL LENGTH:	9526.218 ft
			TOTAL WEIGHT:	32.773	mt
		REMARK : ORIGIN:MADE IN CHINA			

SPECIFICATION NOTE	API 5L(45th)PSL1, ASTM/ASME A/SA106B, CSA Z245.1 GR290 CAT 1, NACE MR0175 MR0103, ISO15156(FOR HARDNESS ONLY)
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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.

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: hstec@hysteeltube.com

CUSTOMER THIRD PARTY

正本
ORIGINAL

Quality Manager:

Handwritten signature



Certificate-maker:

唐娜娜