

HEAT# 1421478

P.O. #132618

HENGYANG VALIN
STEEL TUBE CO.,LTD

MILL TEST CERTIFICATE

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

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E-mail: hseco@hysteeltube.com

(ACCORDING TO EN10204 3.1B)

CUSTOMER	BHD TUBULAR LIMITED		CERTIFICATE NO.	C201407414-1	
CONTRACT-ITEM NO.	2111001072-08	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	2" x SCH80 x 20FT	
TOTAL BUNDLES:	48	TOTAL PIECES:	1748	TOTAL LENGTH:	34982.848 ft
				TOTAL WEIGHT:	79.747 mt

NO.	LOT No.	HEAT No.	BUNDLES	PIECES	LENGTH	WEIGHT	TENSILE TEST ASTM A370						COLD BENDING TEST
					ft	mt	SAMPLE TYPE/ ORIENTATION / SIZE(mm)/GAUGE LENGTH(mm):SL19x50						
						W1	TS(Psi)	YS(Psi)	Rt0.5	EL(%)	R.A. (%)	YS/TS	
1	941302707	1421479	15	548	10967.159	25.001	68295	49880		30.0		0.73	ACCEPTABLE
2	941302708	1421478	22	792	15850.346	36.132	70470	48720		30.5		0.69	ACCEPTABLE
3	941302709	1421480V	4	142	2841.868	6.524	71775	54085		32.0		0.75	ACCEPTABLE
4	941302710	1421477	7	266	5323.475	12.136	74095	53650		27.5		0.72	ACCEPTABLE

NO.	IMPACT TEST								NON METALIC INCLUSION	GRAIN SIZE	HARDNESS TEST		
	NOTCH TYPE/ORIENTATION/TEMPERATURE(°C)/SIZE (mm) :										NACE MR0175/ISO		
	///				///						15156/NACE MR0103		
	AK1 (J)	Av.(J)	% SHEAR AREA	LE	AK2 (J)	Av.(J)	% SHEAR AREA	LE			HRC		
1	/				/						11.0////////		
2	/				/						11.0////////		
3	/				/						11.0////////		
4	/				/						11.0////////		
											11.0////////		

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



ORIGINAL

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E-mail: hsiec@hysteeltube.com

C201407414.1

[illegible]

COATING

ACCEPTABLE

HUNAN CHINA

S243 Nb+V+Ti

ORIGINAL

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SPECIFICATION	SEE SPECIFICATION NOTE	HEAT TREATMENT			
GRADE	B,B/X42,Grade 290		DIMENSIONS	2" x SCH80 x 20FT	
TOTAL BUNDLES:	48	TOTAL PIECES:	1749	TOTAL LENGTH:	34982.848 ft
			TOTAL WEIGHT:	79.747	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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正 本 ORIGINAL		Quality Manager: 唐娅娜 0  Certificate-maker: 唐娅娜