

**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: hsiac@hysteeltube.com

(ACCORDING TO EN10204 3.1B)

CUSTOMER				CERTIFICATE NO.		C201419360-1	
CONTRACT-ITEM NO.	2211002216-01	P.O.NO.	P13335		DATE:	2014-6-19	PAGE: 1/3
PRODUCT	SMLS STEEL LINE PIPE			DELIVERY CONDITION	N		
SPECIFICATION	SEE SPECIFICATION NOTE		HEAT TREATMENT				
GRADE	B/X42,B,B/C			DIMENSIONS	18"x0.938"x 29.5-39.3ft		
TOTAL BUNDLES:	9	TOTAL PIECES:	9	TOTAL LENGTH:	327.755 ft	TOTAL WEIGHT:	25.411 mt

NO.	BATCH No.	HEAT No.	BUNDLES	PIECES	LENGTH	WEIGHT	TENSILE TEST ASTM A370					FLATTENING TEST	
					ft	mt	SAMPLE TYPE/ ORIENTATION / SIZE(mm)/GAUGE LENGTH(mm):CL1/2.750						
							TS(ksi)	YS(ksi)	RT0.5	EL(%)	R.A. (%)	YS/TS	
1	745100261	1410951V	9	9	327.755	25.411	78590	56985		36.5		0.73	ACCEPTABLE

NO.	IMPACT TEST								NON METALLIC INCLUSION	GRAIN SIZE	HARDNESS TEST	
	NOTCH TYPE/ORIENTATION/TEMPERATURE(°C)/SIZE (mm) : V8/T/46°C/10*10*55										NACE MR0175/ISO 15156/NACE MR0103	
AK1 (J)		Av.(J)	% SHEAR AREA	LE	AK2 (J)		Av.(J)	% SHEAR AREA	LE	HRC		
1	92/121/111/	108	80/80/80		/					1.0/IIIIIIII		

NOTES:

W1-THEORETICAL WEIGHT	SAMPLE ORIENTATION : L-LONGITUDINAL T-TRANSVERSE	N-NORMALIZING
W2-ACTUAL WEIGHT	SAMPLE TYPE: S-STRIP C-CLUBBED F-FULL-SECTION	A-ANNEALING
NR-NORMALIZING ROLLED	Q&T-QUENCHING AND TEMPERING	Av.-AVERAGE
AK1-ABSORB ENERGY FOR THE FIRST SET	AK2-ABSORB ENERGY FOR THE SECOND SET	LE-SIDE EXPANSION

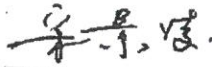

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TOTAL BUNDLES:	9	TOTAL PIECES:	9	TOTAL LENGTH:	327.755 ft	TOTAL WEIGHT: 25.411 mt
		REMARK : 1.ORIGIN:MADE IN CHINA; 2.ALL ELEMENTS TO BE LISTED;				

SPECIFICATION NOTE	API 5L(45th)PSL1,ASTM/ASME A/SA 53/106,NACE MR0175/ISO15156 NACE MR0103(ONLY FOR HARDNESS)	
<p>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.</p> <p>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.</p> <p>Any alteration and/or falsification will be subject to the law.</p> <p>If you need to assure the authenticity of this certificate ,please do not hesitate to contact Hengyang Valin Steel Tube CO.,LTD, E-mail: hsiiec@hysteeltube.com</p>		
CUSTOMER THIRD PARTY	<p>Quality Manager: </p>  <p>Certificate-maker: 刘年亚</p>	