



衡阳华菱钢管有限公司 HENG YANG VALIN STEEL TUBE CO., LTD.



ITEM 2

128894

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产品质量证明书

INSPECTION CERTIFICATE

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ACCORDING TO EN10204-2004 3.1

CERTIFICATE NO.: 19C03009

CUSTOMER:		TRAIN NO.:		DATE:		20191219	
CONTRACT-ITEM NO.:		2119090035004		P.O.NO.:		45655-04	
DELIVERY CONDITION:		Quenched & Tempered		PROCESS OF MANUFACTURE:		HOT FINISHED SEAMLESS	
HEAT TREATMENT:		QUENCHING TEMPERATURE: 880°C-950°C		TEMPERING TEMPERATURE: 550°C-720°C		PIPE-END DESCRIBE:	
SPECIFICATION:		API 5L 46th PSL2/NACE MR 0175		PIPE-END DESCRIBE:		Beveling	
DIMENSIONS:		16 SCH 60 DRL		GRADE:		X52QS PSL2	
L/C ISSUING BANK:		L/C NO.:		L/C ISSUING DATE:		TOTAL WEIGHT:	
REMARK:		REMARK:1. YIELD & TENSILE & IMPACT TEST LOCATION: MIDDLE-WALL;		TOTAL LENGTH:		129.41 m	
TOTAL BUNDLES:		11		TOTAL PIECES:		11	
TOTAL LENGTH:		129.41 m		TOTAL WEIGHT:		20.721 mt	
NO.		TEST LOT No.		HEAT No.		BUNDLES	
PIECES		LENGTH		WEIGHT		IMPACT TEST NOTCH TYPE/ORIENTATION/TEMPERATURE(°C)/SIZE (mm):	
m		mt		W1		Charpy V/T/0°C/10×10×55mm	
AK1(J)		Av(J)		% S.A.		LE	
AK2(J)		Av(J)		% S.A.		LE	
min		20		27			
max		309/348/274/		310/			
1		719122111		19217534		11	
2						11	
3						129.41	
4						20.721	
5							
NO.		TENSILE TEST(S T×38mm/L/50)		HARDNESS TEST (HRB W)		NONMETAL INCLUSION	
SAMPLE TYPE-SIZE(mm)/ORIENTATION/GAUGE LENGTH(mm)		Inside		Middle		Outside	
TS(Mpa)		YS(Mpa)		EL(%)		R.A.(%)	
Rt0.5		YS/TS		99		99	
min		460		360		26.8	
max		760		530		0.93	
1		555/		467/		37/	
2						0.84/	
3						90.6/90.8/90.1/	
4							
5							
HYDROSTATIC TEST		RESIDUAL MAGNETIC		FLATTENING TEST		BENDING TEST	
20.5/5 MPa/s ACCEPTABLE		ACCEPTABLE		/		/	
MACROSCOPIC TEST		COATING		VISUAL & DIMENSION		SSC/HIC/	
/		ACCEPTABLE		ACCEPTABLE		See Attachment	
NOTE:		Av.--AVERAGE		S.A.--SHEAR AREA		SAMPLE ORIENTATION: L--LONGITUDINAL T--TRANSVERSE	
W1--THEORETICAL WEIGHT		AK1--ABSORB ENERGY FOR THE FIRST SET				SAMPLE TYPE: S--STRIP B-- BAR F--FULL-SECTION	
W2--ACTUAL WEIGHT		AK2--ABSORB ENERGY FOR THE SECOND SET				LE--SIDE EXPANSION AI--BANDED STRUCTURE	
N/A--NOT AVAILABLE		PIPE END MACHINING:ACCEPTABLE					
Register of Shipping certificate NO.:		Certificate-maker: Ci Yuanjie		Auditor: Xie Xinjian		Quality Manager: 赵明辉	
Surveyor or customer third party:						Page: 1/2	