ORIGINAL

QUALITY CERTIFICATE

주식회사 휴스틸 (HUSTEEL CO.,LTD.)

□HEAD OFFICE : Shinan B/D 15F, 943-19, Daechi-dong Kangnam-ku, SEOUL 135-845, KOREA
□DANGJIN PLANT: 569-1,BUGOK-RI,SONGAK-MYEON, DANGJIN-GUN, CHUNGCHEONGNAM-DO,KOREA
■DAEBUL PLANT: 11 BLOCK,DAEBUL NATIONAL INDUSTRIAL COMPLEX, NABUL-RI, SAMHO-MYEON,YOUNGAM-KUN,CHULLANAM-DO,KOREA

계약서번호
P/O No. : 11324
L/C No. :
발 급 일 자
ISSUED DATE : 2012. 01. 19.
제 품 명
COMMODITY : E.R.W. STEEL PIPE
제 품 규 격
SPECIFICATION : API 5L-B/ASTM A53B

증명서번호
CERTIFICATE No. : 20120119 - 010
제 조 번 호
MANUFACTURED No.: 2011-12-210
공 급 자
SUPPLIER : HUSTEEL CO.,LTD.
수 요 가
CUSTOMER : PLESA ANAHUAC Y CIAS., S.A.DE C.V.

ITEM NO.	HEAT NO. (LOT)	관종 TYPE ①	수량 QUANTITY (PIECES)	호칭경 NOMINAL SIZE (inch)	주문치수 ORDER SIZE 바깥지름 O.D (mm) ②	두께 W.T. (in) ③	길이 LENGTH (ft)	중 량 WEIGHT (lb/ft)	인장시험 TENSILE TEST 인장강도 TS (psi)	인장강도 YS (psi)	연신율 EL (%)	항복비 YR (YS/TS)
1	SP19363	BPEB	107	12 3/4	323.9	0.225	20'	30.13	67585	45830	34	
2	SP19366	BPEB	146	12 3/4	323.9	0.225	20'	30.13	68455	46410	40	

ITEM NO.	화학성 CHEMICAL COMPOSITION(%) C	Si	Mn	P	S	Cu	Cr	Ni	Mo	V	Nb	Ti	B	PCM	CEQ
	-2	-3	-2	-3					-4					-3	
	④														
1	14	17	79	15	4	16	15	11	1	12	2	11			
2	13	11	75	14	8	15	19	10	1	11	3	10			

ITEM NO.	수압시험 HYDROSTATIC TEST TP (psi) ⑤	RE-SULT	열처리온도 HEAT TREATMENT (℃)	비파괴시험 NDT (U.T) ⑥	경도시험 HARDNESS TEST (HV)	외주장 CIRCUMFERENCE END	BODY	용접부인장강도 TENSILE STRENGTH OF WELDS (psi)	아연도금시험 ZINC COATING TEST WZC (g/㎡)	CST (TIMES)	VISUAL & DIMEN-SION	FLATT-ENING (BEND) TEST	WDT	RGT	MGT	S.T (%)	충격시험 IMPATC TEST P	ENERGY(J) SIZE: ⑪ ( )℃	Res. Mag. ⑫
1	840	GOOD		ACCEPT				68613			ACCEPT	GOOD				0.1			17
2	840	GOOD		ACCEPT				69483			ACCEPT	GOOD				0.1			16

비 고 REMARKS

①Latest edition per API 5LB (44th,2008) / ASTM A53B(2010)

②HARDNESS MAX. 22 HRC AS PER NACE MR 0175

NOTE
①TYPE BPE BLACK PLAIN ENDS BPEB BPE BEVELLED BTE BLACK THREADED ENDS BTC BLACK THREADED & COUPLED GPE GALVANIZED PLAIN ENDS GTE GALVANIZED THREADED ENDS GTC GALVANIZED THREAD & COUPLED
②O.D. OUTSIDE DIAMETER ③W.T. WALL THICKNESS ④CHEMICAL COMPOSITION CHECK-ANALYSIS/UNIT -2:1/×100 -3:1/×1000 -4:1/x10000 TR TRACE ⑤TP TESTING PRESSURE ⑥NDT NON-DESTRUCTIVE TEST
E.T EDDY CURRENT TEST U.T ULTRASONIC TEST ⑦WZC WEIGHT OF ZINC COATING CST COPPER SULPHATE TEST ⑧WDT WELD DUCTILITY TEST RGT RING GAGE TEST MGT METALLOGRAPHIC TEST ⑨S.T STRAIGHTNESS
⑩P=Position B:Base Metal, CL:Center Line ⑪SPECIMEN SIZE, A:10x10mm, B:10x7.5mm, C:10x6.7mm, D:10x5.0mm, ⑫RES.MAG. : RESIDUAL MAGNTISM

SIGNATURE

SURVEYOR TO:

본 제품은 관련 규격이 정한 시험 및 검사에 합격하였음을 증명합니다.
WE HEREBY CERTIFY THAT THE PRODUCTS HEREIN HAVE BEEN MADE AND TESTED IN ACCORDANCE WITH THE ABOVE SPECIFICATION AND ALSO WITH THE REQUIREMENTS CALLED FOR THE ORDER.

SIGNATURE

MANAGER OF QUALITY ASSURANCE TEAM

HMS C-30-05-(21)