

ORIGINAL

CERTIFICATE OF QUALITY

주식회사 휴스틸
(HUSTEEL CO.,LTD.)

계약서번호 : 12994
P/O No. : 12994
L/C No. : 0173610610272655
발급일자 : 2012. 07. 11.
ISSUED DATE : 2012. 07. 11.
제품명 : E.R.W. STEEL PIPES
COMMODITY : E.R.W. STEEL PIPES
제품규격 : API 5LB / ASTM A53B
SPECIFICATION : API 5LB / ASTM A53B

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: 150,DAEBULSANDAN3-RO, YOUNGAM-GUN
JOLLANAM-DO, KOREA

증명서번호 : 20120711-211
CERTIFICATE No. : 20120711-211
제조번호 : 2012-07-211
MANUFACTURED No.: 2012-07-211
공급자 : HUSTEEL CO.,LTD.
SUPPLIER : HUSTEEL CO.,LTD.
수요자 : PLESA ANAHUAC Y CIAS.,
CUSTOMER : S.A. DE C.V.

ITEM NO.	HEAT NO. (LOT)	관종 TYPE	수량 QUANTITY (PIECES)	호칭경 NOMINAL SIZE (inch)	주문치수 ORDER SIZE			중량 WEIGHT (lb/ft)	인장시험 TENSILE TEST				화학성분 CHEMICAL COMPOSITION(%)														
					바깥지름 O.D (mm)	두께 W.T. (in)	길이 LENGTH (ft)		인장강도 TS (psi)	항복강도 YS (psi)	연신율 EL (%)	항복비 YR (YS/TS)	C	Si	Mn	P	S	Cu	Cr	Ni	Mo	V	Nb	Ti	B	PCM	CEQ
													-2	-3	-2	-3			-4			-3					
1	281843	BPEB	14	12 3/4	323.9	0.225	20'	30.10	70340	47425	37		17	14	84	15	2	12	24	12	50	5	27	5	1		
2	389345	BPEB	61	12 3/4	323.9	0.225	20'	30.10	68165	47280	40		13	14	84	14	3	1	17	1	1	11	32	7	1		
3	389346	BPEB	14	12 3/4	323.9	0.225	20'	30.10	69035	49891	39		15	9	85	12	2	1	13	1	1	7	18	4	1		
4	SP18949	BPEB	31	12 3/4	323.9	0.225	20'	30.10	67440	46845	40		14	16	72	15	4	27	14	3	1	6	14	4	1		
5	M49081	BPEB	38	12 3/4	323.9	0.500	20'	65.48	70340	58013	45		4	9	79	13	2	5	20	1	1	9	291	9	1		
6	280493	BPEB	9	16	406.4	0.250	20'	42.09	70485	45685	40		17	13	84	17	2	11	15	6	15	4	24	7	1		
7	M50539	BPEB	28	16	406.4	0.250	20'	42.09	68165	54967	41		7	17	82	16	3	12	22	6	26	6	209	7	1		
8	SF09379	BPEB	1	16	406.4	0.250	20'	42.09	65264	44525	40		16	15	72	13	3	14	18	5	1	3	9	3	1		
9	M50530	BPEB	25	16	406.4	0.375	20'	65.64	70630	56272	40		7	15	82	17	4	15	24	7	22	7	287	7	1		
10	M49772	BPEB	35	18	457.0	0.250	20'	47.44	63379	49601	41		6	15	75	10	4	18	21	7	20	7	154	7	1		

ITEM NO.	수압시험 HYDROSTATIC TEST		열처리온도 HEAT TREATMENT (°C)	비파괴 시험 NDT (U.T)	경도시험 HARDNESS TEST (HV)	외주장 CIRCUMFERENCE		용접부인장강도 TENSILE STRENGTH OF WELDS (psi)	아연도금시험 ZINC COATING TEST		VISUAL & DIMEN-SION	FLATT-ENING (BEND) TEST	W D T	R G T	M G T	S.T (%)	충격시험 IMPACT TEST		Res. Mag.	비 고 REMARKS	
	TP (psi)	RE-SULT				END	BODY		WZC (g/m²)	CST (TIMES)							P	ENERGY(J) SIZE: ⑩			
	⑤								⑦								⑩ ()°C				
1	760	GOOD	930	ACCEPT				74401			ACCEPT	GOOD					GOOD	0.1		16	
2	760	GOOD	930	ACCEPT				72226			ACCEPT	GOOD					GOOD	0.1		16	
3	760	GOOD	930	ACCEPT				73096			ACCEPT	GOOD					GOOD	0.1		17	
4	760	GOOD	930	ACCEPT				71501			ACCEPT	GOOD					GOOD	0.1		17	
5	1680	GOOD	950	ACCEPT				74401			ACCEPT	GOOD					GOOD	0.1		16	
6	670	GOOD	930	ACCEPT				74546			ACCEPT	GOOD					GOOD	0.1		16	
7	670	GOOD	930	ACCEPT				72226			ACCEPT	GOOD					GOOD	0.1		16	
8	670	GOOD	930	ACCEPT				69325			ACCEPT	GOOD					GOOD	0.1		17	
9	1000	GOOD	950	ACCEPT				74691			ACCEPT	GOOD					GOOD	0.1		17	
10	600	GOOD	930	ACCEPT				67440			ACCEPT	GOOD					GOOD	0.1		17	

N 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
O ②C.D. OUTSIDE DIAMETER ③W.T. WALL THICKNESS ④CHEMICAL COMPOSITION CHECK-ANALYSIS/UNIT -2:1×100 -3:1×1000 -4:1×10000 TR TRACE ⑤TP TESTING PRESSURE ⑥NDT NON-DESTRUCTIVE TEST
T 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
E ⑩P=Position B:Base Metal, CL:Center Line ⑪SPECIMEN SIZE, A:10x10mm, B:10x7.5mm, C:10x6.7mm, D:10x5.0mm, ⑫RES.MAG. : RESIDUAL MAGNETISM

SIGNATURE _____
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 *[Signature]*
MANAGER OF QUALITY ASSURANCE TEAM

