

계약서번호 SH980317JK  
 L/C No. : 88462-00  
 발급일자  
 ISSUED DATE : 2008. 05. 19.  
 제품명  
 COMMODITY : E.R.W. STEEL PIPE  
 제품규격  
 SPECIFICATION : API 5L X-42 PSL1/API 5LB  
 ASTM A53B/ASME SA 53B

# INSPECTION CERTIFICATE

## 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

증명서번호  
 CERTIFICATE No. : D080519 - 117  
 제조번호  
 MANUFACTURED No. : 08-03-216  
 주문자  
 SUPPLIER : HUSTEEL CO., LTD.  
 수요가  
 CUSTOMER : HUSTEEL USA INC.

ITEM NO.	HEAT NO. (LOT)	관종 TYPE	수량 QUANTITY (PIECES)	호칭경 NOMINAL SIZE (in)	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 TENSILE STRENGTH (psi)	항복강도 YIELD STRENGTH (psi)	연신율 ELONGATION (%)	C	SI	Mn	P	S	Cu	Cr	NI	Mo	V
					②	③			2	3	2	3	2	3	2	3	2	3	2	3	2
1	C822230	BPEB	9	24	610.0	0.250	42'	63.47	67440	47135	43	15	14	77	11	7	2	2	3	TR	1
2	C822231	BPEB	9	24	610.0	0.250	42'	63.47	67295	47570	40	16	12	74	13	9	2	3	2	1	TR
3	C811231	BPEB	48	24	610.0	0.375	21'	94.71	68600	47280	40	17	14	77	19	5	2	2	3	TR	1
4	C831447	BPEB	48	24	610.0	0.375	21'	94.71	68165	47715	38	16	15	79	13	6	2	2	3	TR	1
5	C821995	BPEB	24	24	610.0	0.375	42'	94.71	66714	46990	41	15	12	72	13	8	2	3	2	1	TR
6	C821031	BPEB	24	24	610.0	0.375	42'	94.71	64539	46120	45	15	5	78	10	7	2	3	2	1	TR
7	C831447	BPEB	24	24	610.0	0.375	42'	94.71	68165	47715	38	16	15	79	13	6	2	2	3	TR	1
8	C832376	BPEB	24	24	610.0	0.375	42'	94.71	66860	46265	40	16	13	72	11	8	2	3	2	1	TR

LAST ITEM

ITEM NO.	수입시험 HYDROSTATIC TEST		열처리온도 HEAT TREATMENT (°C)	비파괴 시험 NDT (U.T)	경도시험 HARDNESS TEST (HrB)	외주장 CIRCUMFERENCE (mm)		용접부인장강도 TENSILE STRENGTH OF WELDS (psi)	아연도금시험 ZINC COATING TEST		VISUAL & DIMENSION	FLATTENING (BEND) TEST	R G T	F R T	C R T	R F T	S.T (%)	충격시험 IMPACT TEST		잔류 자기 Res. Mag.	비고 REMARKS
	TP (PSI)	RE-SULT				END	BODY		WZC (g/m²)	CST (TIMES)								ENE-RGY (J)	SHEAR AREA (%)		
	⑤																	(0)°C	Gauss		
1	790	GOOD	930	ACCEPT			70050			ACCEPT	GOOD	GOOD					0.1			18	We hereby certify that our mills haven't added our materials to any lead ingredient during pipe manufacturing process
2	790	GOOD	930	ACCEPT			69905			ACCEPT	GOOD	GOOD					0.1			16	
3	1180	GOOD	950	ACCEPT			71210			ACCEPT	GOOD	GOOD					0.1			19	
4	1180	GOOD	950	ACCEPT			70775			ACCEPT	GOOD	GOOD					0.1			17	
5	1180	GOOD	950	ACCEPT			69325			ACCEPT	GOOD	GOOD					0.1			16	
6	1180	GOOD	950	ACCEPT			67150			ACCEPT	GOOD	GOOD					0.1			19	
7	1180	GOOD	950	ACCEPT			70775			ACCEPT	GOOD	GOOD					0.1			18	
8	1180	GOOD	950	ACCEPT			69470			ACCEPT	GOOD	GOOD					0.1			17	

LAST ITEM

REMARK : ①HARDNESS MAX. 22 HRC AS PER NACE MR 0175②Latest edition per API 5L X42 & 5LB(43rd,2004)/ASTM A53B(2005)/ASME SA 53B(2000)

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 ②O.D. OUTSIDE DIAMETER ③W.T. WALL THICKNESS ④CHEMICAL COMPOSITION CHECK ANALYSIS 2:\*100 3:\*1000 TR TRACE ⑤TP TESTING PRESSURE ⑥NDT NONDESTRUCTIVE 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 FRT FRANCE TEST ⑨ RES.MAG. : RESIDUAL MAGNETISM  
 E CRT CRUSH TEST RFT REVERSE FLATTENING TEST S.T STRAIGHTNESS

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 : *[Handwritten Signature]*  
 MANAGER OF QUALITY ASSURANCE TEAM