

INSPECTION CERTIFICATE

HUSTEEL CO., LTD.

계약서번호 SH980317JK
 L/C No. 91912-00
 발급일자 ISSUED DATE : 2008. 10. 31.
 상품명 COMMODITY : E.R.W. STEEL PIPE
 제품규격 SPECIFICATION : API 5L X-42 PS1/API 5LB
 ASTM A53B/ASME SA 53B

HEAD OFFICE : Shinan 8/D 15F, 949-19, Daechi-dong
 Kangnam-ku, SEUL, 135-845, KOREA
 DANGJIN PLANT : 569-1, BUDOK-RI, SONGAK-HYEON, DANGJIN-GUN,
 CHUNGCHONGNAM-DO, KOREA
 DAEBUL PLANT : 11 BLOCK, DAEBUL NATIONAL INDUSTRIAL COMPLEX,
 NAEBUL-RI, SAHMO-HYEON, YOUNGAM-KUN, CHOLLABAM-DO, KOREA

증명서번호 CERTIFICATE No. : 0081031 - 385
 제조번호 MANUFACTURED No. : 08-07-213
 주문자 SUPPLIER : HUSTEEL CO., LTD.
 수요가 CUSTOMER : HUSTEEL USA INC.

ITEM NO.	HEAT NO. (LOT)	관종 TYPE	수량 QUANTITY (PIECES)	호칭명 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	3	3		
1	C815115	BPEB	48	24	610.0	0.375	21'	94.71	69035	47715	39	18	14	80	16	7	2	2	2	1	TR
2	C815824	BPEB		24	610.0	0.375	21'	94.71	68455	48150	42	16	12	77	13	4	2	2	3	TR	TR
3	C836340	BPEB		24	610.0	0.375	21'	94.71	67585	47425	38	15	11	82	14	6	3	2	2	1	1
4	C836341	BPEB		24	610.0	0.375	21'	94.71	68165	47860	40	17	16	79	15	5	2	3	2	TR	1
5	C815098	BPEB		24	610.0	0.375	21'	94.71	68310	47425	42	16	11	74	13	7	3	2	2	1	TR
6	C816098	BPEB		24	610.0	0.375	21'	94.71	68020	47135	38	17	6	77	11	8	3	2	2	1	TR

LAST ITEM

ITEM NO.	수압시험 HYDROSTATIC TEST		열처리 온도 HEAT TREATMENT (°C)	비파괴 시험 NOT (U.T)	경도 시험 HARDNESS TEST (HrB)	외주장 CIRCUMFERENCE (mm)		용접부 인장강도 TENSILE STRENGTH OF WELDS (psi)	아연도금 시험 ZINC COATING TEST		VISUAL & DIMENSION	FLATTENING (BEND) TEST	R G T	F R T	C R T	R F T	S. T (%)	충격 시험 IMPACT TEST		잔류 자기 Res. Mag.	비고 REMARKS					
	TP (PSI)	RE-SULT				ENE-RGY (J)	SHEAR AREA (%)		WZC (g/m²)	CST (TIMES)								T	T			T	T	T	T	T
1	1180	GOOD	950	ACCEPT				71648			ACCEPT	GOOD	GOOD				0.1			16	We hereby certify that our mills haven't added our materials to any lead ingredient during pipe manufacturing process					
2	1180	GOOD	950	ACCEPT				71065			ACCEPT	GOOD	GOOD				0.1			19						
3	1180	GOOD	950	ACCEPT				70195			ACCEPT	GOOD	GOOD				0.1			18						
4	1180	GOOD	950	ACCEPT				70775			ACCEPT	GOOD	GOOD				0.1			17						
5	1180	GOOD	950	ACCEPT				70920			ACCEPT	GOOD	GOOD				0.1			19						
6	1180	GOOD	950	ACCEPT				70630			ACCEPT	GOOD	GOOD				0.1			19						

LAST ITEM

REMARK : ①HARDNESS MAX. 22 HRC AS PER NACE MR 0175
 ②Latest edition per API 5L X42 & 5LB(43rd,2004)/ASTM A53B(2005)/ASME SA 53B(2000)

N (1)TYPE BPE BLACK PLAIN ENDS BPEB BPE BEVELLED BTE BLACK THREADED ENDS BTC BLACK THREADED & COUPLED BPC GALVANIZED PLAIN ENDS BTE GALVANIZED THREADED ENDS BTC 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 ⑧WTD 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 : _____
 SUBVEYOR 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