MILL'S QUALITY CERTIFICATE

SeAH Steel Corp.
(주)세 아 제 강

HEAD OFFICE ; BONGNAE-DONG 1GA, JUNG-GU, SEOUL, KOREA
POHANG PLANT ; 14-1, JANGHEUNG-DONG, NAM-GU, POHANG

증명서번호
CERTIFICATE NO.: E200704-0086-001171(5001422)
제 품 명
COMMODITY : E.R.W STEEL PIPE
제 품 규 격
SPECIFICATION : API 5LB PSL1/ASTM A53B(2005)

발 급 일 자
DATE OF ISSUE : 2007.03.30
계 약 서 번 호
L/C No. (P/O No.) : 47LI-B82946-TLJY(1103049204)
수 요 가
CUSTOMER : DUFERCO SA
주 문 자
SHIPPER : SEAH STEEL CORPORATION

NO.	HEAT NO. (BATCH NO.)	관 단 TYPE *1	주 문 치 수 ORDER SIZE	수 량 QUANTITY 본 수 PCS	총 길 이 TOTAL LENGTH	중량(M/T) WEIGHT	비 고 REMARK
25	SB67673 (SHH3021070)	BBE	10 " X 0.250 " X 6.120 M	128	783.360 M	32.973	* DESCRIPTIION OF GOODS : 1,408.552MT (+/- 10 PCT) CARBON STEEL PIPES WELDED / ASTM A53 B
26	SB67673 (SHH3022010)	BBE	10 " X 0.250 " X 6.120 M	70	428.400 M	18.031	* STEEL GRADE : ASTM A53 B
27	SB67672 (SHH3022020)	BBE	10 " X 0.250 " X 6.120 M	70	428.400 M	18.031	
28	SB67676 (SHH3022030)	BBE	10 " X 0.250 " X 6.120 M	60	367.200 M	15.455	

NO.	HEAT NO (BATCH NO.)	HYDROSTATIC TEST 10 Sec. psi	RESULT	N·D·T U *2	VISUAL & DIMENSION	FLATTENING	SHOCK	COMPRESSION	RESIDUAL MAGNETISM GAUSS	BENDING *3	DRIFT	CRUSH	FLARING	FLANGE	REVERSE FLATTENING	ZINC COATING TEST WEIGHT OF ZINC COAT -ING	균일성 C.S *4	알칼리 ALK *5
기준 SPEC									30									
25	SB67673 (SHH3021070)	980	G	G	G	G			G									
26	SB67673 (SHH3022010)	980	G	G	G	G			G									
27	SB67672 (SHH3022020)	980	G	G	G	G			G									
28	SB67676 (SHH3022030)	980	G	G	G	G			G									

NO.	HEAT NO (BATCH NO.)	DESIG *6	C	Si	Mn	P	S	CU	NI	CR	MO	V	CEQ *8	DIR *9	TENSILE STRENGTH psi	YIELD STRENGTH psi	E.L % *10	IMPACT TEST (℃) ENERGY Joule	SHEAR AREA %	HARDNESS TEST	HEAT TREATMENT SN *11	PROTECTIVE COATING & LINING THICKNESS	P.H
				2		3		2	2	2	2	3											
기준 SPEC		MAX	26		120	30	30	40	40	40	15	80											
		MIN													60000	35000							
25	SB67673 (SHH3021070)	H	14	1	66	16	8																
		P	13	1	66	15	7	1	1	1	TR	TR		T	65990	49490	40				G		
		P	15	2	67	16	7	TR	1	1	TR	TR		W	68699								
26	SB67673 (SHH3022010)	H	14	1	66	16	8																
		P	15	2	67	14	6	1	1	1	TR	TR		T	66560	50490	41				G		
		P	13	1	66	17	9	1	1	1	TR	1		W	67276								
27	SB67672 (SHH3022020)	H	15	2	67	20	7																
		P	15	2	67	19	6	TR	1	1	TR	TR		T	69410	50490	38				G		
		P	16	1	68	18	9	1	1	1	TR	TR		W	68272								
28	SB67676 (SHH3022030)	H	15	1	67	20	10																
		P	14	1	68	21	12	TR	1	1	TR	1		T	68410	49350	37				G		
		P	15	TR	66	19	11	TR	1	1	TR	TR		W	66992								

NOTE *1 ~ *12 : Refer To The Attached Section Designation

OTHER

Surveyor :

- WE HEREBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH ABOVE SPECIFICATION AND THE RESULTS OF ALL TEST ARE ACCEPTABLE.
- THE USE OF THE MATERIAL OUTSIDE THE SPECIFICATIONS INDICATED ON THIS CERTIFICATE MAY CAUSE SAFETY AND/OR MONETARY PROBLEMS. FURTHERMORE, ANY ORGANIZATION OR PERSON(S) WHO DELIBERATELY MODIFIES THE CERTIFICATE WILL BE PROSECUTED FOR FORGING AN OFFICIAL DOCUMENT (ACCORDING TO THE PROVISIONS OF THE CRIMINAL CODE 231)

Manager of Q.M Dept.

J. E. KIM

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