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.: E200701-0393-000393(5000987)
제 품 명
COMMODITY : E.R.W STEEL PIPE
제 품 규 격
SPECIFICATION : ASTM A500 B(2003A)

발 급 일 자
DATE OF ISSUE : 2007.01.19
계 약 서 번 호
L/C No. (P/O No.) : 1103044853
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
13	SB62790 (SHH1052040)	BME	12" X 12" X 0.500 " X 40.000 FT	15	600.000 FT	20.703	
14	SB62878 (SHH1061080)	BME	12" X 12" X 0.250 " X 40.000 FT	30	1,200.000 FT	21.468	
15	SB63287 (SHH1061090)	BME	12" X 12" X 0.250 " X 40.000 FT	70	2,800.000 FT	50.092	
16	SB62799 (SHH1061100)	BME	12" X 12" X 0.250 " X 40.000 FT	34	1,360.000 FT	24.330	

COPY

NO.	HEAT NO (BATCH NO.)	HYDROSTATIC TEST Sec.	HYDROSTATIC TEST RESULT	N·D·T *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	CHEMICAL COMPOSITION(%) DESIG *6	C	Si	Mn	P	S						CEQ *8	DIR *9	TENSILE TEST (Gage Length : 50mm) TENSILE STRENGTH psi	YIELD STRENGTH psi	E.L % *10	IMPACT TEST (℃) ENE-RGY Joule	SHEAR AREA %	HARD-NESS TEST	HEAT TREAT MENT *11	PROTECTIVE COATING & LINING THICK-NESS	P.H
																				2			3																			
기준 SPEC																			MAX	30			45	45																		
																			MIN														58000	46000	23							
13	SB62790 (SHH1052040)				G														H	18	1	79	16	5																		
																			P	19	TR	80	18	7							L	75660	49210	26							
																			P	19	2	80	16	5																		
14	SB62878 (SHH1061080)				G														H	15	1	67	15	5																		
																			P	14	TR	67	13	3							L	71400	48070	27							
																			P	16	2	68	13	5																		
15	SB63287 (SHH1061090)				G														H	15	2	70	20	5																		
																			P	14	1	69	22	3							L	70970	49780	28							
																			P	14	1	70	22	5																		
16	SB62799 (SHH1061100)				G														H	15	1	60	16	8																		
																			P	14	1	60	16	10							L	69260	51060	28							
																			P	16	TR	60	18	6																		

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