증명서번호
CERTIFICATE NO.: E200605-0341-000454(5000079)

제 품 명
COMMODITY : E.R.W STEEL PIPE

제 품 규 격
SPECIFICATION : ASTM A500 B(2003A)

MILL' TEST 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

발 급 일 자
DATE OF ISSUE : 2006.05.29

계 약 서 번 호
L/C No. (P/O No.) : 04980PSILC05387

수 요 가
CUSTOMER : DUFERCO SA

주 문 자
SHIPPER : SEAH STEEL CORP

NO.	HEAT NO. (BATCH NO.)	관단 TYPE *1	주문치수 ORDER SIZE	수량 QUANTITY 본수 PCS	총길이 TOTAL LENGTH	중량(M/T) WEIGHT	비고 REMARK
5	C611611 (SHG5022030)	BME	12" X 12" X 0.250 " X 40.000 FT	118	4,720.000 FT	84.441	
6	C611611 (SHG5031010)	BME	12" X 12" X 0.250 " X 40.000 FT	22	880.000 FT	15.743	
7	SP52198 (SHG5032010)	BME	16" X 16" X 0.500 " X 40.000 FT	55	2,200.000 FT	103.083	
8	SP52198 (SHG5041010)	BME	16" X 16" X 0.500 " X 40.000 FT	59	2,360.000 FT	110.580	

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	DESIG *6	C	Si	Mn	P	S	CEQ *8	DIR *9	TENSILE STRENGTH psi	YIELD STRENGTH psi	E.L % *10	IMPACT TEST (℃) ENERGY Joule	IMPACT TEST (℃) SHEAR AREA %	HARDNESS TEST	HEAT TREAT MENT *11	PROTECTIVE COATING & LINING THICKNESS	PROTECTIVE COATING & LINING P.H
																				CHEMICAL COMPOSITION(%) 2			3		*7										
기준 SPEC																			MAX	30			45	45											
																			MIN								58030	45940	23						
5	C611611 (SHG5022030)				G														H	15	2	56	16	7											
																			P							L	66700	49210	24						
6	C611611 (SHG5031010)				G														H	15	2	56	16	7											
																			P							L	70260	49630	24						
7	SP52198 (SHG5032010)				G														H	18	1	83	12	8											
																			P							L	70120	48640	29						
8	SP52198 (SHG5041010)				G														H	18	1	83	12	8											
																			P							L	72530	46080	31						

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.

Seok il Kim

주식회사세아제강 SeAH 포항강품질경영팀장