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MILL'S QUALITY CERTIFICATES

SeAH 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.: E200709-0076-002312(5001666)
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 : 2007.08.31
계 약 서 번 호
L/C No. (P/O No.) : PLESA
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
1	SB74856 (SHH6232120)	BME	12" X 12" X 0.500 " X 40.000 FT	44	1,760.000 FT	60.729	ORIGINAL
2	SB74856 (SHH6251010)	BME	12" X 12" X 0.500 " X 40.000 FT	12	480.000 FT	16.562	
3	C634381 (SHH6251030)	BME	12" X 12" X 0.500 " X 40.000 FT	6	240.000 FT	8.281	
4	SB74856 (SHH6251050)	BME	12" X 12" X 0.313 " X 40.000 FT	100	4,000.000 FT	87.240	

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	규일성 C.S *4	알칼리 ALK *5	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 (℃) ENERGY Joule	SHEAR AREA %	HARDNESS TEST	HEAT TREATMENT *11	PROTECTIVE COATING & LINING THICKNESS	P.H
																				CHEMICAL COMPOSITION(%)																								
기준 SPEC																			MAX	30			45	45																			
																			MIN																								
1	SB74856 (SHH6232120)				G														H	18	3	86	10	9																			
																			P	18	4	85	12	9		L	68980	47230	26							
																			P	17	4	86	8	10																			
2	SB74856 (SHH6251010)				G														H	18	3	86	10	9																			
																			P	17	3	86	10	7		L	73530	48070	31							
																			P	17	4	86	11	7																			
3	C634381 (SHH6251030)				G														H	16	2	79	13	7																			
																			P	15	2	78	11	7		L	70120	48780	31							
																			P	15	2	79	14	6																			
4	SB74856 (SHH6251050)				G														H	18	3	86	10	9																			
																			P	17	2	85	11	7		L	75520	50630	26							
																			P	18	3	86	10	11																			

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

주식회사세아제강 SeAH 포항강철공장품질관리담당