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MILL'S QUALITY CERTIFICATES

SeAH Steel Corp.
(주)세아제강

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

증명서번호
CERTIFICATE NO. : E200709-0080-002316(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 : 2007.09.21

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
9	SQ12064 (SHH6262010)	BME	14" X 14" X 0.375 " X 40.000 FT	13	520.000 FT	16.125	
10	SQ11058 (SHH6262020)	BME	14" X 14" X 0.375 " X 40.000 FT	22	880.000 FT	27.289	
11	SQ12066 (SHH6262060)	BME	14" X 14" X 0.312 " X 40.000 FT	17	680.000 FT	17.659	
12	SQ11058 (SHH6262090)	BME	14" X 14" X 0.312 " X 40.000 FT	5	200.000 FT	5.194	

ORIGINAL

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	규격 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	IMPACT TEST (℃) SHEAR AREA %	HARDNESS TEST	HEAT TREATMENT *11	PROTECTIVE COATING & LINING THICKNESS	PROTECTIVE COATING & LINING P.H
																				2			3													
기준 SPEC																			MAX	30			45	45			58000	46000	23						
																			MIN																	
9	SQ12064 (SHH6262010)				G														H	17	1	83	14	4											
																			P	16	1	83	15	3		L	73530	50630	32						
																			P	17	2	84	16	2											
10	SQ11058 (SHH6262020)				G														H	18	1	77	14	6											
																			P	17	1	76	12	8		L	72820	47220	27						
																			P	19	2	77	12	8											
11	SQ12066 (SHH6262060)				G														H	18	1	83	16	5											
																			P	17	2	84	14	6		L	72680	49630	30						
																			P	19	2	82	15	7											
12	SQ11058 (SHH6262090)				G														H	18	1	77	14	6											
																			P	18	2	76	16	8		L	72110	51340	27						
																			P	17	TR	76	12	5											

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 포항강철공장품질보증팀장