MILL'S QUALITY CERTIFICATE

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.: 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
9	SP70542 (SHH1032140)	BME	14" X 14" X 0.500 " X 40.000 FT	54	2,160.000 FT	87.864	
* 10	SB62795 (SHH1042080)	BME	12" X 12" X 0.375 " X 40.000 FT	162	6,480.000 FT	170.878	
* 11	SB62793 (SHH1051090)	BME	12" X 12" X 0.500 " X 40.000 FT	60	2,400.000 FT	82.812	150,442
12	SB62790 (SHH1051100)	BME	12" X 12" X 0.500 " X 40.000 FT	49	1,960.000 FT	67.630	

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
기준 SPEC																		
9	SP70542 (SHH1032140)				G													
10	SB62795 (SHH1042080)				G													
11	SB62793 (SHH1051090)				G													
12	SB62790 (SHH1051100)				G													

NO.	HEAT NO (BATCH NO.)	DESIG *6	C	Si	Mn	P	S						CEQ *8	DIR *9	TENSILE STRENGTH psi	YIELD STRENGTH psi	E.L % *10	ENE-RGY Joule	SHEAR AREA %	HARD-NESS TEST	HEAT TREAT MENT *11	THICK-NESS	P.H
			2			3																	
			*7																				
기준 SPEC		MAX	30			45	45																
		MIN													58000	46000	23						
9	SP70542 (SHH1032140)	H	18	1	81	11	5																
		P	19	2	82	12	6							L	71250	49090	32						
10	SB62795 (SHH1042080)	P	17	TR	82	11	6																
		H	18	3	75	16	5																
		P	17	4	76	16	3							L	75810	51480	25						
11	SB62793 (SHH1051090)	P	18	2	74	15	7																
		H	16	1	80	15	9																
		P	16	2	81	16	11							L	74380	50770	25						
12	SB62790 (SHH1051100)	P	17	2	81	16	9																
		H	18	1	79	16	5																
		P	18	TR	78	17	7							L	79080	52620	26						
		P	18	TR	80	15	3																

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 포항공장품질경영팀장