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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	
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.	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	규일정 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.	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 TREATMENT *11	PROTECTIVE COATING & LINING THICKNESS	PROTECTIVE COATING & LINING P.H
		2			3								*7										
기준 SPEC	MAX	30			45	45																	
	MIN														58000	46000	23						
9	H	18	1	81	11	5																	
	P	19	2	82	12	6								L	71250	49090	32						
	P	17	TR	82	11	6																	
10	H	18	3	75	16	5																	
	P	17	4	76	16	3								L	75810	51480	25						
	P	18	2	74	15	7																	
11	H	16	1	80	15	9																	
	P	16	2	81	16	11								L	74380	50770	25						
	P	17	2	81	16	9																	
12	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