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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.)	판단 TYPE *1	주문치수 ORDER SIZE	수량 QUANTITY 본수 PCS	총길이 TOTAL LENGTH	중량(M/T) WEIGHT	비고 REMARK
17	SB62790 (SHH1081010)	BME	16" X 8" X 0.500 " X 40.000 FT	66	2,640.000 FT	91.106	
18	SB62804 (SHH1081020)	BME	16" X 8" X 0.500 " X 40.000 FT	15	600.000 FT	20.706	
19	C634378 (SHH1081030)	BME	16" X 8" X 0.375 " X 40.000 FT	42	1,680.000 FT	44.302	
20	C614845 (SHH1081040)	BME	16" X 8" X 0.375 " X 40.000 FT	20	800.000 FT	21.096	

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																		
17	SB62790 (SHH1081010)				G													
18	SB62804 (SHH1081020)				G													
19	C634378 (SHH1081030)				G													
20	C614845 (SHH1081040)				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												
기준 SPEC	MAX	30			45	45											
	MIN								58000	46000	23						
17	H	18	1	79	16	5											
	P	17	TR	79	15	6		L	78510	53760	28						
	P	17	TR	80	17	7											
18	H	19	1	78	16	7											
	P	18	1	77	15	9		L	76090	49630	27						
	P	20	TR	77	18	9											
19	H	17	2	79	19	14											
	P	17	1	80	19	13		L	71110	48210	31						
	P	18	1	80	18	16											
20	H	16	2	72	13	9											
	P	17	2	73	15	7		L	71400	54470	29						
	P	17	2	71	12	7											

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