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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.: E200709-0077-002313(5002028)

제 품 명 COMMODITY : E.R.W STEEL PIPE

제 품 규 격 SPECIFICATION : API 5LB PSL1/ASTM A53B(2006)

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
39	C712503 (SIH7201100)	BBE	24 " X 0.500 " X 6.120 M	2	12.240 M	2.290	PO.NO :1103054906
40	C712486 (SIH7201120)	BBE	24 " X 0.500 " X 6.120 M	2	12.240 M	2.290	
41	C713192 (SIH7201150)	BBE	24 " X 0.500 " X 6.120 M	2	12.240 M	2.290	
42	C713191 (SIH7201170)	BBE	24 " X 0.500 " X 6.120 M	10	61.200 M	11.448	

NO.	HEAT NO (BATCH NO.)	HYDROSTATIC TEST 5 Sec. psi	RESULT	N·D·T U *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
기준 SPEC									30									
39	C712503 (SIH7201100)	880	G	G	G	G			G									
40	C712486 (SIH7201120)	880	G	G	G	G			G									
41	C713192 (SIH7201150)	880	G	G	G	G			G									
42	C713191 (SIH7201170)	880	G	G	G	G			G									

NO.	DESIG *6	C	Si	Mn	P	S	CU	NI	CR	MO	V	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 SN *11	PROTECTIVE COATING & LINING THICKNESS	P.H
		2			3		2	2	2	2	3											
		*7																				
기준 SPEC	MAX	26		120	30	30	40	40	40	15	80											
	MIN													60000	35000							
39	H	17	2	78	18	10																
	P	16	1	77	19	11	1	2	2	1	1		T	69970	53330	39				G		
	P	17	1	77	16	10	1	2	3	1	1		W	69125								
40	H	18	1	75	19	9																
	P	19	2	75	17	9	2	2	1	1	1		T	70260	49920	39				G		
	P	18	2	74	21	9	2	2	1	1	1		W	70832								
41	H	17	2	78	13	9																
	P	16	2	77	14	11	1	1	1	1	1		T	72110	51200	39				G		
	P	17	3	78	11	8	1	1	1	1	1		W	73108								
42	H	17	2	76	12	8																
	P	17	3	77	10	8	1	1	1	1	2		T	73670	49920	41				G		
	P	16	3	77	13	10	1	1	1	1	1		W	73819								

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