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MILL'S QUALITY CERTIFICATES

SeAH SeAH Steel Corp.
(주)세 아 제 강
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
1	SQ14525 (SHH7201100)	BBE	10 " X 0.365 " X 6.120 M	2	12.240 M	0.740	PO.NO :1103054906
2	ST93365 (SHH7202030)	BBE	10 " X 0.365 " X 6.120 M	1	6.120 M	0.370	
3	ST93366 (SHH8011050)	BBE	10 " X 0.365 " X 6.120 M	130	795.600 M	48.134	
4	SQ13981 (SHH8011060)	BBE	10 " X 0.365 " X 6.120 M	30	183.600 M	11.108	

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	균일성 C.S *4	알칼리 ALK *5	CHEMICAL COMPOSITION(%) DESIG *6	C	Si	Mn	P	S	CU	NI	CR	MO	V	CEQ *8	DIR *9	TENSILE TEST (Gage Length : 50mm) TENSILE STRENGTH psi *10	YIELD STRENGTH psi	E.L %	IMPACT TEST (℃) ENE-RGY Joule	SHEAR AREA %	HARD-NESS TEST	HEAT TREAT MENT SN *11	PROTECTIVE COATING & LINING THICK-NESS	P.H
																				2			3		2	2	2	2	3												
기준 SPEC									30										MAX	26		120	30	30	40	40	40	15	80												
																			MIN												60000	35000							
1	SQ14525 (SHH7201100)	1430	G	G	G	G			G										H	18	1	78	10	6															
																			P	19	TR	78	11	5	1	1	1	TR	1		T	68980	45230	41				G		
																			P	19	1	79	10	4	1	1	2	TR	1		W	68556								
2	ST93365 (SHH7202030)	1430	G	G	G	G			G										H	18	1	73	16	5															
																			P	19	1	72	15	6	TR	1	1	TR	1		T	75240	52200	41				G		
																			P	18	TR	72	16	3	TR	1	1	1	1		W	76095								
3	ST93366 (SHH8011050)	1430	G	G	G	G			G										H	18	1	73	17	4															
																			P	17	TR	72	16	3	1	1	1	TR	1		T	69970	45940	37				G		
																			P	18	1	72	15	5	1	1	1	TR	1		W	70406								
4	SQ13981 (SHH8011060)	1430	G	G	G	G			G										H	17	2	85	14	3															
																			P	18	2	84	15	3	TR	1	1	TR	1		T	68980	44660	41				G		
																			P	17	3	85	16	1	TR	1	1	TR	TR		W	71117								

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 품질경영팀장