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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.: E200704-0087-001172(5001422)
제 품 명 COMMODITY : E.R.W STEEL PIPE
제 품 규 격 SPECIFICATION : API 5LB PSL1/ASTM A53B(2005)

발 급 일 자 DATE OF ISSUE : 2007.03.30
계 약 서 번 호 L/C No. (P/O No.) : 47LI-B82946-TLJY(1103049204)
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
4	SB66821 (SHH2162030)	BBE	14 " X 5.70 MM X 6.120 M	76	465.120 M	22.875	* DESCRIPTION OF GOODS : 1,408.552 MT (+/- 10 PCT) CARBON STEEL PIPES WELDED / ASTM A53 B
5	C710335 (SHH3022040)	BBE	10 " X 5.70 MM X 6.120 M	341	2,086.920 M	78.447	* STEEL GRADE : ASTM A53 B

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
기준 SPEC									30									
4	SB66821 (SHH2162030)	880	G	G	G	G			G									
5	C710335 (SHH3022040)	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							
4	H	14	1	71	20	5																
	P	13	TR	71	21	3	1	1	1	TR	TR		T	69830	47930	41				G		
	P	15	TR	71	18	5	1	1	1	TR	1		W	70400								
5	H	16	1	81	11	6																
	P	16	1	82	13	4	2	2	3	1	1		T	72390	54760	42				G		
	P	15	2	80	9	4	2	2	3	1	1		W	73960								
	P												T	72110	54610	44						
	P												W	74380								

COPY

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