Dufercо 1

MILL'S QUALITY CERTIFICATES

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.: E200812-0057-002874(5003628)

제 품 명
COMMODITY : E.R.W STEEL PIPE

제 품 규 격
SPECIFICATION : API 5L B(PSL1)/ASTM A53B

발 급 일 자
DATE OF ISSUE : 2008.12.12

계 약 서 번 호
L/C No. (P/O No.) : 47LI-C80768-TCTT(1103066336)

수 요 가
CUSTOMER : PLESA

주 문 자
SHIPPER : DUFERCO SA

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	C815172 (PHIX301021)	BBE	10 " X 0.500 " X 6.120 M	17	104.040 M	8.486	CONFIRM TO NACE NORM MR0175(LAST EDITION)
2	SQ55431 (PHIY132101)	BBE	10 " X 0.500 " X 6.120 M	25	153.000 M	12.477	*ERW: CHEMICAL COMPOSITION, HEAT TREATMENT AND HARDNESS ONLY
3	C825127 (SHI9182040)	BBE	10 " X 0.500 " X 6.120 M	2	12.240 M	0.998	*DSAW:CHEMICAL COMPOSITION AND HARDNESS ONLY
4	SB15843 (SHI9182080)	BBE	10 " X 0.500 " X 6.120 M	36	220.320 M	17.967	

NO.	HEAT NO (BATCH NO.)	HYDROSTATIC TEST 5 Sec. psi	HYDROSTATIC TEST 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	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	SHEAR AREA %	HARDNESS TEST	HEAT TREATMENT SN *11	PROTECTIVE COATING & LINING THICKNESS	P.H
																				CHEMICAL COMPOSITION(%)												TENSILE TEST (Gage Length : 50mm)									
																				2			3		2	2	2	2	3												
기준 SPEC									30										MAX	26		120	30	30	40	40	40	15	80												
																			MIN													60000	35000								
1	C815172	1950	G	G	G	G			G										H	16	2	76	11	8																	
	(PHIX301021)																		P	15	3	77	13	6	1	1	1	1	1		T	72960	45230	34				G			
																			P	15	3	75	13	6	1	1	1	1	1		W	73108								
2	SQ55431	1950	G	G	G	G			G										H	17	1	77	14	4																	
	(PHIY132101)																		P	16	TR	76	14	3	1	1	1	TR	TR		T	72680	49780	37				G			
																			P	17	TR	78	13	3	1	1	1	TR	TR		W	74429								
3	C825127	1950	G	G	G	G			G										H	17	2	76	12	7																	
	(SHI9182040)																		P	16	1	76	11	5	1	2	1	1	1		T	68130	48660	36				G			
																			P	18	2	76	15	9	2	2	1	1	1		W	71561								
4	SB15843	1950	G	G	G	G			G										H	19	2	79	20	9																	
	(SHI9182080)																		P	19	3	80	19	9	TR	TR	1	TR	TR		T	71250	49630	35				G			
																			P	18	3	78	20	11	TR	1	1	TR	TR		W	73548								

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.

N. J. Baek