PAGE : 1 / 2

증명서번호
CERTIFICATE NO.: E200605-0341-000454(5000079)

제 품 명
COMMODITY : E.R.W STEEL PIPE

제 품 규 격
SPECIFICATION : ASTM A500 B(2003A)

MILL' TEST CERTIFICATE

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

발 급 일 자
DATE OF ISSUE : 2006.05.29

계 약 서 번 호
L/C No. (P/O No.) : 04980PSILC05387

수 요 가
CUSTOMER : DUFERCO SA

주 문 자
SHIPPER : SEAH STEEL CORP

NO.	HEAT NO. (BATCH NO.)	관단 TYPE *1	주문치수 ORDER SIZE	수량 QUANTITY 본수 PCS	총길이 TOTAL LENGTH	중량(M/T) WEIGHT	비고 REMARK
1	C611728 (SHG5021010)	BME	12" X 12" X 0.375 " X 40.000 FT	44	1,760.000 FT	46.412	
2	C621828 (SHG5021020)	BME	12" X 12" X 0.375 " X 40.000 FT	46	1,840.000 FT	48.522	
3	C621827 (SHG5021030)	BME	12" X 12" X 0.375 " X 40.000 FT	42	1,680.000 FT	44.302	
4	C621827 (SHG5021040)						

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																		
1	C611728 (SHG5021010)				G													
2	C621828 (SHG5021020)				G													
3	C621827 (SHG5021030)				G													
4	C621827 (SHG5021040)				G													

NO.	DESIGN	C	Si	Mn	P	S							CEQ	DIR	TENSILE STRENGTH	YIELD STRENGTH	E.L %	IMPACT TEST (℃) ENERGY	IMPACT TEST (℃) SHEAR AREA	HARDNESS TEST	HEAT TREATMENT	PROTECTIVE COATING & LINING THICKNESS	PROTECTIVE COATING & LINING P.H
		2			3																		
	*6	*7											*8	*9	psi	psi	*10	Joule	%		*11		
기준 SPEC	MAX	30			45	45																	
	MIN														58030	45940	23						
1	H	17	1	74	19	9																	
	P													L	70540	48350	31						
2	H	15	1	72	20	6																	
	P													L	69970	47360	29						
3	H	16	1	74	22	9																	
	P													L	70690	47500	33						
4	H	16	1	74	22	9																	
	P													L	69830	48640	32.3						

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.

Seok il Kim

주식회사세아제강 SeAH 포항공장품질경영팀장