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증명서번호
CERTIFICATE NO.: E200605-0340-000453(5000079)

제 품 명
COMMODITY : E.R.W STEEL PIPE

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

MILL' TEST CERTIFICATE

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.)	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	C630905 (E162005301)	BME	12" X 12" X 0.375 " X 40.000 FT	103	4,120.000 FT	108.644	
2	C630906 (E162005302)	BME	12" X 12" X 0.500 " X 40.000 FT	185	7,400.000 FT	255.337	
3	SQ63591 (E162005303)	BME	16" X 16" X 0.375 " X 40.000 FT	184	7,360.000 FT	262.310	
				472			

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	C630905 (E162005301)				G													
2	C630906 (E162005302)				G													
3	SQ63591 (E162005303)				G													

NO.	HEAT NO (BATCH NO.)	CHEMICAL COMPOSITION(%) DESIG *6	C	Si	Mn	P	S						CEQ *8	TENSILE TEST (Gage Length : 50mm) DIR *9	TENSILE STRENGTH psi	YIELD STRENGTH psi	E.L ~ % *10	IMPACT TEST (℃) ENERGY Joule	SHEAR AREA %	HARDNESS TEST	HEAT TREATMENT *11	PROTECTIVE COATING & LINING THICKNESS	P.H
			2			3																	
기준 SPEC		MAX	30			45	45																
		MIN													58030	45940	23						
1	C630905 (E162005301)	H P	16	4	78	15	12							L	67130	48210	29.3						
2	C630906 (E162005302)	H P	17	3	78	14	12							L	74100	51630	28						
3	SQ63591 (E162005303)	H P	16	1	85	13	7							L	75380	51200	27.7						

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