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 증명서번호 : E201204-0163-000964(5007927)
 제품명 : H.F.W STEEL PIPE
 제품규격 : API 5LB PSL1/ASTM A53B(2007)

MILL'S QUALITY
 CERTIFICATES
SeAH Steel Corp.
 (주)세아제강

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 수요가 : PLESA
 CUSTOMER : PLESA
 주문자 : DUFERCO SA
 SHIPPER : DUFERCO SA

HEAD OFFICE : BONGNAE-DONG 1GA, JUNG-GU, SEOUL, KOREA
 POHANG PLANT ; 14-1, JANGHEUNG-DONG, NAM-GU, POHANG

NO.	HEAT NO. (BATCH NO.)	관단 TYPE *1	주문 치 수 ORDER SIZE			수 량 QUANTITY			비 고 REMARK
			10 "	X 0.250 "	X 6.120 M	분 수 PCS	총 길이 TOTAL LENGTH	중량(M/T) WEIGHT	
1	SP29022 (SHM4022050)	BBE	10 "	X 0.250 "	X 6.120 M	291	1,780.920 M	74.959	ORIGINAL
2	SP29017 (SHM4022060)	BBE	10 "	X 0.250 "	X 6.120 M	176	1,077.120 M	45.336	
3	SQ68326 (SHM4032040)	BBE	10 "	X SCH40	X 6.120 M	128	783.360 M	47.393	
4	SQ65888 (SHM4032050)	BBE	10 "	X SCH40	X 6.120 M	55	336.600 M	20.364	

HEAT NO. (BATCH NO.)	HYDROSTATIC TEST 5 Sec. psi	N·D·T RESULT *2	V·I·S·U·A·L & S·E·A·L·I·N·G *3	F·L·A·T·T·E·N·I·N·G	S·H·O·C·K C·O·M·P·R·E·S·S·I·O·N G·A·U·S·S *3	R·E·A·G·I·N·G I·D·E·N·T·I·F·I·C·A·T·I·O·N *3	B·E·N·D·I·N·G	D·R·I·F·T	C·R·U·S·H	F·L·A·R·I·N·G	F·L·A·N·G·E	R·E·L·A·T·I·V·E T·E·N·S·I·L·E	ZINC COATING TEST			CHEMICAL COMPOSITION(%)											TENSILE TEST (Gage Length : 50mm)			IMPACT TEST (°C)		HARDNESS TEST	HEAT TREATMENT			
													WEIGHT OF ZINC COATING *4	C·S·I·A·L·K	D·E·P·T·H *6	C	Si	Mn	P	S	Cu	Ni	Cr	Mo	V	Nb	Ti	CEQ	D·I·R	TENSILE STRENGTH psi	YIELD STRENGTH psi			E·L %	E·N·E·R·G·Y Joule	S·H·E·A·R A·R·E·A %
1	1000	G	G	G	G	G							H	15	1	69	11	3	1	1	1	TR	2	1	1	T	69320	46840	35			83	G			
2	1000	G	G	G	G	G							H	14	2	70	10	4	1	1	1	TR	2	1	TR	W	74540					83	G			
3	1450	G	G	G	G	G							P	13	2	71	13	4	1	2	1	TR	2	1	1	T	70920	55980	34			83	G			
4	1450	G	G	G	G	G							H	18	2	79	15	4								W	72800					84	G			
													P	17	2	79	14	3	2	1	2	TR	2	1	2	T	70480	48580	37			84	G			
													H	17	1	77	12	3								W	76720					84	G			
													P	16	1	77	10	3	1	1	2	TR	2	1	TR	T	72510	48440	35			84	G			
													P	16	1	78	11	4	1	1	2	TR	2	1	TR	W	74980									

OTHERS : *1-BBE:Black Beveled End(30°) *2-U:Weld Seam Ultrasonic Test *3-G:GOOD *Tr:Trace
 *4-H:Heat(Ladle) Analysis, P:Product Analysis *7-2:X100, 3:X1000 *8-T:Base Metal Transverse, W:Weld Part Transverse *10-E.L:Elongation *11-S.N:Seam Normalizing *G:GOOD *Tr:Trace
 * THIS CERTIFICATE IS ISSUED ACCORDING TO EN 10204 3.1 (ISO 10474 3.1.B)

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



