MILL TEST CERTIFICATE

CERTIFICATE NO : HIE2006-243 PAGE : 1

DATE OF ISSUE : Jul. 11, 2006

L/C NO (P/O NO) : 04980PSILC05386

COMMODITY : PRIME SQUARE STRUCTURAL TUBES GRADE ASTM A500-B LENTH 40'

SPECIFICATION : ASTM A500 GR. B

CUSTOMER : DUFERCO SA

HISTEEL CO. , LTD.

HEAD OFFICE & INCHON PLANT : 405-310
89BLOCK 4LOT, GOZANDONG, NAMDONG-KU, INCHON, KOREA
TEL : (032)815-6386-8
FAX : (032)815-6389

SEOUL OFFICE : 100-013
57-8, CHUNGMU-RO 3-GA, JUNG-KU , SEOUL, KOREA
TEL : (02)2273-2141-3
FAX : (02)2273-2157

TYPE OF PIPE END	DIMENSION (OUTDIA. × THICK. × LENGTH)			QUAN-TITY	WEIGHT	HYDRO-STATIC TEST		HEAT-NO.	TENSILE TEST				CHEMICAL COMPOSITION																IMPACT TEST (0 ℃)		REMARK
									YIELD STREN-GTH	TENSILE STRENGTH		(EL)		C	Si	Mn	P	S	Cu	Ni	Cr	Mo	Nb	V	Ti	B	HARDNESS	Ceq	ENERGY	SHEAR-VALUE	
※1	※2	※3	※4	(PCS)	(KG)	Kg/㎟ PSI	※5			B ※6	W ※7																				(HARDNESS)
									PSI			%	※8	×100			×1000		×100				×1000				HV	×1000	JOULE	%	
BPE	NB	6"X6" X 0.313" X 40'		72	27,887			SR10552	54,516	65,101		25	H	6	2	54	11	5													
BPE	NB	6"X6" X 0.375" X 40'		138	69,000			H060605	52,342	63,071		27	H	6	1	81	9	6													
BPE	NB	8"X8" X 0.250" X 40'		120	56,250			H060604	53,792	63,361		25	H	6	1	78	7	4													
BPE	NB	8"X8" X 0.375" X 40'		148	101,370			H060605	52,342	63,071		27	H	6	1	81	9	6													
BPE	NB	8"X4" X 0.250" X 40'		130	43,333			SR11904	54,806	63,941		29	H	5	2	61	12	5													
BPE	NB	8"X4" X 0.375" X 40'		95	47,500			SR11250	53,647	64,086		26	H	4	2	56	12	2													
		TOTAL		703	345,340																										

ORIGINAL

※9 P. S. A	※10 VISUAL & DIMENSION TEST	※11 FLATTENING (B) TEST	※12 WELD DUCTILITY TEST	※13 NONDESTRUCTIVE TEST (U.T)	※14 DRIFT TEST	※15 FLARING TEST	※16 CRUSH TEST	※17 REVERSE FLATTENING TEST
	GOOD							

NOTE 1 ※1 Type of pipe End

BPE :Black Plain End Square-cut	GPE :Galvanized Plain End Square-cut
BPEB :Black Plain End Beveled	GPEB :Galvanized Plain End Beveled
BTC :Black Threaded & Coupled	GTC :Galvanized Threaded & Coupled
BVJ :Black Victaulic Joint	GVJ :Galvanized Victaulic Joint
ETC :Enameled Threaded & Coupled	

※ 2 NB:Norminal Bore, OD:Outside Diameter
※ 3 Unit (M:mm, I:Inch)
※ 4 Unit (M:Meter, F:Feet, I:Inch)
※ 5 G:Good
※ 6 Base Metal
※ 7 W : Weld Part
※ 8 H:Heat (Ladle) Analysis , P:Product Analyics
※ 9 POST SEAM ANNEALING
※10 Visual & Dimension Test
※11 Flattening or Bending Test
※12 Weld Ductility Test
※13 Nondestructive Test
※14 Drift Test
※15 Flaring Test
※16 Crush Test
※17 Reverse Flattening Test

SUPERVISOR

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN ACCEPED IN ACCORDANCE WITH THE PRESCRIBED SPECIFICATION AND ORDER

INSPECTION MANAGER

HISE-103-06(0)

HISTEEL CO., LTD

A4(210X297)